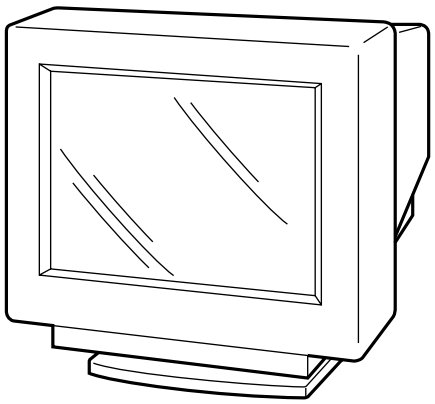
D2846

SERVICE MANUAL



N3 CHASSIS

SPECIFICATIONS

PICTURE TUBE	Size	21-inch Trinitron®/ 19.8-inch viewable image
	Phosphorous	Red, Green, Blue short persistence
	Dot pitch	0.25-0.27 mm stripe pitch
	Face Plate	Anti-glare, anti-static coating
INPUT SIGNAL	Video	0.7 Vp p analog RGB
	Synchronization	Separated H/V (TTL level), H/V mixed (TTL level), Sync-on-green
INTERFACE	Input Connector	15-pin mini D-SUB; EVC
SCANNING FREQUENCY	Horizontal	30 to 107 kHz
	Vertical	50 to 160 Hz
MAX. RESOLUTION (H × V)	1600×1200 (85 Hz)	
WARM-UP TIME	30 minutes to reach optimum performance level	
PIXEL CLOCK	230 MHz	
IMAGE SIZE	At 1280×1024 Standard size[1]: 364(H) x 291(V) mm Maximum size: 403(H) x 302(V) mm	At other resolutions Standard size[1]: 388(H) x 291(V) mm Maximum size: 403(H) x 302(V) mm
POWER SOURCE	AC 90 to 264 V, 47 to 63 Hz, 160 W (max), less than 15 W in Standby mode, less than 5 W in Sleep mode, less than 1 W when switched off.	
OPERATING ENVIRONMENT	Temperature	5 °C to 40 °C (operating) - 40 °C to +60 °C (storage)
	Operating Humidity	10% RH through 80% RH (without condensation)
CABINET DIMENSIONS	504(H) × 498(W) × 474(D) mm (with stand)	
WEIGHT	31 kg	
TILT/SWIVEL STAND	Tilt Angle	- 5° to + 15°
	Swivel Angle	±90°

1. Use the standard image sizes to avoid distortion of the displayed image.

COLOR GRAPHIC DISPLAY

HP

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

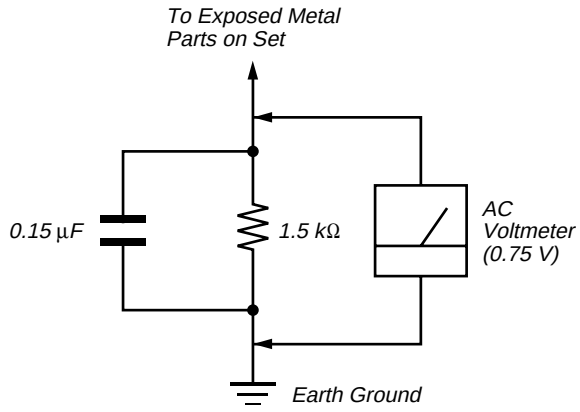


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers).

Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!
NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!
NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNE-MENT EST SUSPECTÉ.

POWER SAVING FUNCTION

Minimizing Energy Consumption

If your PC supports VESA display power management (available on many HP Vectra PCs), you can minimize the power consumed by the display. There are two power saving modes:

- Standby mode[1] (uses less than 15W). In this mode, the display's front panel indicator light blinks green and amber.
- Sleep mode[2] (uses less than 5 W). In this mode, the display's front panel indicator light glows amber.

To set these power saving modes, refer to the manual that came with your PC. If your screen is not displaying an image, check the front panel indicator light first — your display may be in a power saving mode.

1. Standby mode is activated when vertical synchronization is cut by the video controller.
2. Sleep mode is activated when both vertical and horizontal synchronization are cut by the video controller.

DIAGNOSIS

Failre	Power LED
+B failure	Yellow (0.5 sec) → Off (0.5 sec)
Horizontal / Vertical Deflection failure, Thermal protector	Yellow (1.5 sec) → Off (0.5 sec)
ABL protector	Yellow (0.5 sec) → Off (1.5 sec)
HV failure	Yellow (0.25 sec) → Off (0.5 sec) → Yellow (0.25 sec) → Off (1.25 sec)
Aging / Self Test	Yellow (0.5 sec) → Off (0.5 sec) → Green (0.5 sec) → Off (0.5 sec)

Aging Mode (Video Aging) : During Power Save, press "MENU" key for longer than 2 second.
Self Test (OSD Color Bar) : During Power Save, press "CONTRAST" + (⬆) key for longer than 2 second.
Reliability Check Mode : During Power Save, press "CONTRAST" – (⬇) key for longer than 2 second.

TIMING SPECIFICATION

MODE AT PRODUCTION	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6	MODE 7	MODE 8	MODE 9	MODE 10
RESOLUTION	640 X 400	640 X 480	800 X 600	1024 X 768	1024 X 768	1280 X 1024	1280 X 1024	1280 X 1024	1600 X 1200	1600 X 1200
CLOCK	25.175 MHz	36.000 MHz	56.250 MHz	78.750 MHz	94.500 MHz	135.000 MHz	135.000 MHz	157.500 MHz	202.500 MHz	229.500 MHz
—HORIZONTAL—										
H-FREQ	31.469 kHz	43.269 kHz	53.674 kHz	60.023 kHz	68.677 kHz	78.125 kHz	79.976 kHz	91.146 kHz	93.750 kHz	106.250 kHz
	usec	usec	usec	usec	usec	usec	usec	usec	usec	usec
H. TOTAL	31.778	23.111	18.631	16.660	14.561	12.800	12.504	10.971	10.667	9.412
H. BLK	6.356	5.333	4.409	3.657	3.725	3.319	3.022	2.844	2.765	2.44
H. FP	0.636	1.556	0.569	0.203	0.508	0.474	0.119	0.406	0.316	0.279
H. SYNC	3.813	1.556	1.138	1.219	1.016	1.422	1.067	1.016	0.948	0.837
H. BP	1.907	2.222	2.702	2.235	2.201	1.422	1.837	1.422	1.501	1.325
H. ACTIV	25.422	17.778	14.222	13.003	10.836	9.481	9.481	8.127	7.901	6.972
— VERTICAL —										
V. FREQ(HZ)	69.931 Hz	85.008 Hz	85.061 Hz	75.029 Hz	84.997 Hz	72.005 Hz	75.025 Hz	85.024 Hz	75.000 Hz	85.000 Hz
	lines	lines	lines	lines	lines	lines	lines	lines	lines	lines
V. TOTAL	450	509	631	800	808	1085	1066	1072	1250	1250
V. BLK	50	29	31	32	40	61	42	48	50	50
V. FP	12	1	1	1	1	3	1	1	1	1
V. SYNC	2	3	3	3	3	3	3	3	3	3
V. BP	36	25	27	28	36	55	38	44	46	46
V. ACTIV	400	480	600	768	768	1024	1024	1024	1200	1200
— SYNC —										
INT(G)	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO
EXT(H/V)/POLARITY	YES N/P	YES N/N	YES P/P	YES P/P	YES P/P	NO	YES P/P	YESP/P	YES P/P	YES P/P
EXT(CS)/POLARITY	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT

97.9.19 VER.

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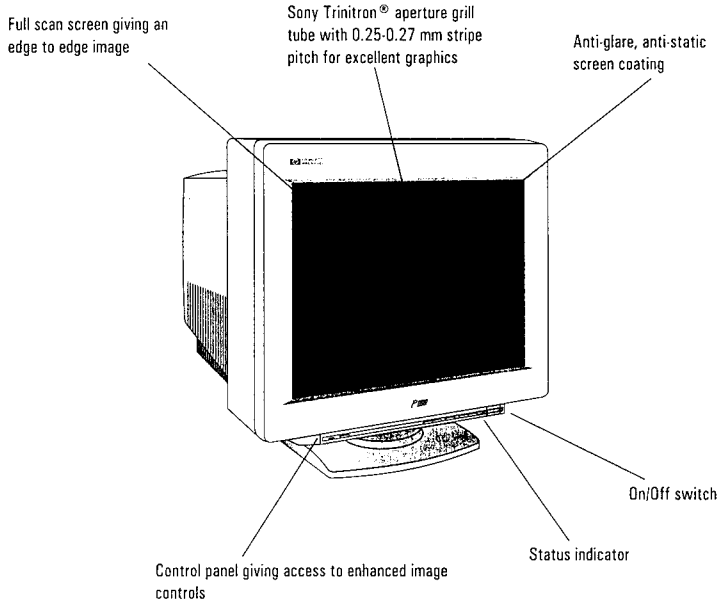
Note: Hand degauss must be used on stand-by or power-off condition.
This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1
GENERAL


Full scan screen giving an edge to edge image
Sony Trinitron® aperture grill tube with 0.25-0.27 mm stripe pitch for excellent graphics
Anti-glare, anti-static screen coating
On/Off switch
Status indicator
Control panel giving access to enhanced image controls

HP P1100
21-inch Color Monitor
19.8-inch Viewable Image

User's Guide

Important Safety Instructions

Before you plug in your new display, read these important safety instructions.

WARNING

Connect the display only to a grounded power outlet. Use the power cord supplied with the display or one with a properly grounded plug. Ensure the cable meets your country's standards for safety.

To avoid the risk of an electric shock, do not open the cover of the display. There are no user-serviceable parts inside. To completely disconnect power at the display, remove the power cord from the power outlet. Ensure that the power outlet is easily accessible.

The display is quite heavy (the weight is shown in the technical specifications). We recommend you ask the assistance of a second person when lifting or moving it.

USA and Canada

If the power cord is not supplied with your display, select the proper power cord according to the appropriate national electric codes.

- USA: use a UL Listed Type SVT or Type SJT detachable power cord.
- Canada: use a CSA certified detachable power cord.

Si le cordon secteur n'est pas livré avec votre moniteur, utiliser un cordon secteur en accord avec le code national électrique applicable.

- USA: utiliser un cordon secteur UL Liste de type SVT ou SJT.
- Canada: utiliser un cordon secteur certifié CSA.

What Your New Display Offers

The HP P1100 Monitor is a 21-inch (19.8-inch viewable image), high resolution, multi-synchronous color display. Multi-synchronous means that the display supports a range of video modes. It is optimized to be used with all Hewlett-Packard PCs.

Your HP D2846A color display has the following features:

- A 21-inch Sony Trinitron®[1] tube, with a 19.8-inch viewable image, and 0.25-0.27 mm stripe pitch for excellent graphics. Anti-glare, antistatic screen to minimize reflection.
- Support of video modes up to Ultra VGA 1600 at 85 Hz refresh rates.
- Image adjustment using onscreen menus. Includes advanced geometry, color temperature, and image purity controls to optimize the quality and position of the image.
- Display power management system (VESA[2] standard) controlled from suitably equipped HP Vectra PCs to automatically reduce the power consumption of the display. Complies with the ENERGY STAR Computers Program initiated by the US EPA[3] and the Swedish NUTEK[4] specification for energy efficient displays.
- Display Plug and Play capability (VESA DDC1/2B standard) that enables the display to identify itself to suitably equipped HP Vectra PCs, even when the display is switched off.
- Compliance with ISO 9241-3 and ISO 9241-8 ergonomic standards.
- Your HP D2846A complies with the TCO[5] '92 requirements for low frequency electrical and magnetic fields, and for energy saving. It also complies with TCO '95 requirements which include environmental specifications.
- Your HP D2846A complies with the new Swedish standard SS4361490, equivalent to MPR-III guidelines, Level A, for upper limits of electrical and electrostatic emissions. This Level A corresponds to TCO '91 requirements which specify an even lower level of emissions than MPR-II recommendations.
- Your HP D2846A display complies with Blue Angel and E2000 environmental requirements.

1. Trinitron® is a registered trademark of Sony Corporation
2. VESA is the Video Electronics Standards Association
3. The US EPA is the United States Environmental Protection Agency
4. NUTEK is the Swedish National Board for Industrial and Technical Development
5. Swedish Confederation of Professional Employees

Setting Up Your Display

Where to Place the Display

Place your display on a flat sturdy surface.

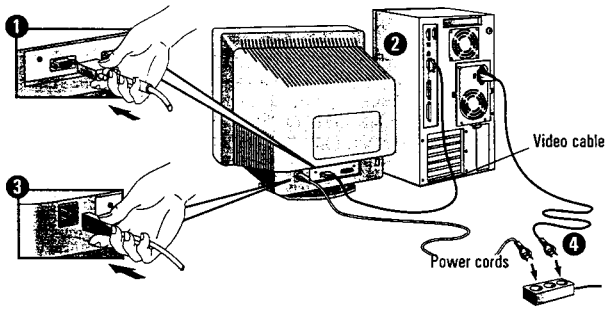
Ensure the operating site is free from excessive heat, moisture, and sources of electromagnetic fields. Sources of electromagnetic fields include transformers, motors, and other displays.

Connecting the Cables

NOTE

Your display has two video inputs, one with a standard 15-pin VGA connector, and one with a connector of the VESA EVC[1] standard. An EVC cable is not provided with the display: if you wish to use this connector — to connect more than one computer to your display, for example — you must purchase a suitable cable from your supplier.

Before you connect any cables, refer to the safety instructions at the beginning of this manual and make sure your PC and display are switched off.



1. Extended Video Connector

1 Connect the video cable to the standard video input on the back of your display. Tighten the thumbscrews on the plug.

2 Connect the video cable (it has a 15-pin plug) to the video outlet on your PC. Tighten the thumbscrews on the plug.

3 Connect the power cord to the display.

4 Plug the power cord into the power outlet.

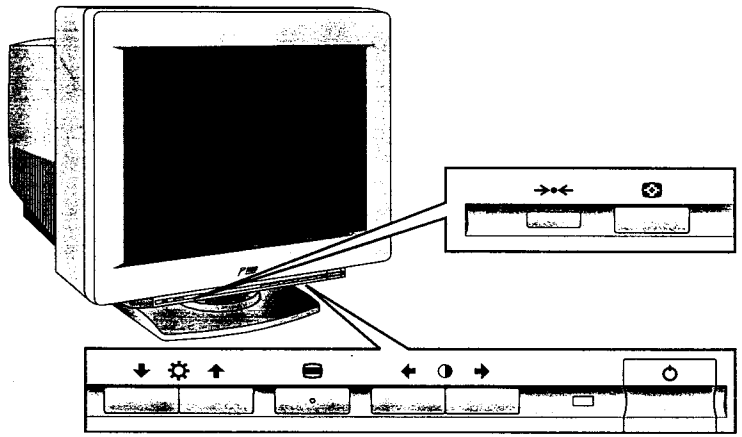
NOTE The location of your PC's video outlet may be different to the one shown in the diagram. Refer to the manual that came with your PC, if necessary.

Using Your Display

The on/off switch ⏻ is on the front of the display.

You can adjust the quality, position, size and shape of the displayed image using the control panel on the front of the display.

Your display also features automatic image adjustment through Auto Size and Center, to minimize the need for manual adjustment.



Making Basic Adjustments

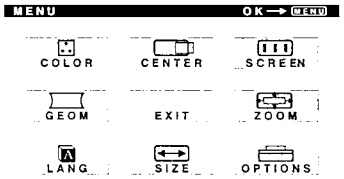
- To increase the brightness, press ↑
- To decrease the brightness, press ↓
- To increase the contrast, press →
- To decrease the contrast, press ←
- To automatically adjust your display for the video mode you are using, press ⊡. Auto Size and Center will make the necessary adjustments for you. You can then optimize your display's settings using the controls described further on.

NOTE

Auto Size and Center works by sensing the edges of the image to be displayed on the screen. If your display is showing an image with dark or undefined edges — such as a command prompt — then you may have to make manual adjustments.

Your Display's On-screen Menus

Your display features on-screen menus to help you make adjustments. To activate the main menu, press ▬. It looks like this:



The blue rectangles provide access to submenus. They turn yellow when highlighted by the cursor. Use these direction controls to move the cursor: ←, →, ↑, ↓.

Press ▬ to select the highlighted submenu. Then use the direction controls to adjust the settings in the submenu. When you have finished making your adjustments, press ▬ to leave the submenu. Then highlight EXIT, if necessary, and press ▬ again to leave the main menu.

You can set the position and the language of your display's menus. Refer to "Setting Your Display's Preferences" later on.

Adjusting Your Display for a Particular Video Mode

These adjustments only apply when you are working in the video mode in which you set them. So, for example, you can adjust your display whilst working in 1280 × 1024 resolution, switch to another resolution, and your display will switch back to your preferred settings when you start to work in 1280 × 1024 resolution once more.

NOTE

You may want to adjust the rotation of the displayed image *before* adjusting your display for a particular video mode. See "Configuring Your Display" further on.

Centering the Displayed Image

Select ▭ from the main menu. Use ← and → to adjust the horizontal position of the displayed image. Use ↑ and ↓ to adjust the vertical position.

Resizing the Displayed Image

Select ↔ from the main menu. Use ← and → to adjust the horizontal size of the displayed image. Use ↑ and ↓ to adjust the vertical size.

Correcting for Pincushion Distortion

Select ▭ from the main menu. Use ↑ and ↓ to highlight ▭. Use ← and → to adjust until the edges of the displayed image are straight.

Adjusting the Pin Balance

Select ▭ from the main menu. Use ↑ and ↓ to highlight ▭. Use ← and → to adjust until the edges of the displayed image are straight.

Correcting for Keystone Distortion

Select ▭ from the main menu. Use ↑ and ↓ to highlight ⏢ . Use ← and → to adjust until the edges of the displayed image are parallel with each other.

Adjusting the Key Balance

Select ▭ from the main menu. Use ↑ and ↓ to highlight ⏢ . Use ← and → to adjust until the edges of the displayed image are parallel with the edges of the screen.

Reducing Moire

Under certain circumstances, the displayed image may be distorted by the Moire effect. This usually happens when your display is showing certain complex patterns, and can often be reduced by adjusting the brightness and contrast settings of your display, or by adjusting the vertical or horizontal size.

If this does not work, select ▭▭▭ from the main menu. You will see either one or two icons like this: ▭ . If there is only one visible, highlight it and then press → to turn on Moire reduction. Then press ↓ to highlight the lower icon, and use ← and → to adjust the level of Moire reduction. If both icons are visible, simply select the lower one and adjust straight away. If you want to turn off Moire reduction temporarily, highlight the upper icon and press ← . When you come to turn it back on again, the level you chose before will be restored.

Resetting Your Adjustments for the Video Mode you are Working in

Press →←. Your adjustments are deleted for the video mode you are working in, and the settings preset at the factory are restored.

Resetting Individual Settings You can also reset individual settings. Select the item you want to reset in the on-screen menu, and press →← whilst the submenu is still displayed. For example, to reset your display's geometry settings, select ▭ from the main menu, and then press →← whilst the submenu titled GEOMETRY is displayed. All the settings accessible through that submenu — for rotation, pincushion distortion, pin balance and so on — are reset to those set in the factory.

Configuring your Display

These adjustments let you configure your display very precisely to its environment and to your needs. They are always effective, whatever video mode you are working in.

Rotation

Select ▭ from the main menu. Then highlight ◇ and use ← and → to rotate the displayed image.

Color Temperature

Your display combines red, blue, and green to show a full color image. Under certain circumstances you may wish to change the proportions of red, blue and green used by the display. This is called changing the *color temperature*.

Your display can store three color temperatures. When it is shipped from the factory, these are preset to 5000 Kelvin, 6500 Kelvin and 9300 Kelvin, but you can overwrite any or all of these presets with your own color temperatures if you wish.

To Select A Preset Color Temperature Select ⁘ from the main menu. Use ← and → to select the color temperature.

To Create Your Own Color Temperature Setting Select ⁘ from the main menu. Use ← and → to select the color temperature setting you want to overwrite. Use ↑ and ↓ to select Red, Green or Blue, and then use ← and → to adjust the selected color level.

To Restore the Factory Preset Color Temperature Settings Select ⁘ from the main menu. Press →←. The factory preset color temperature settings are restored.

Advanced Configuration

NOTE

These controls are for advanced users who want to optimize the purity of the displayed image. Unnecessary adjustment of these controls may adversely affect the overall performance of the display. Remember that you can restore the factory settings at any time — refer to "Resetting Individual Settings" above.

Convergence Use this control if you see *fringing* in the displayed image. That is when areas in the displayed image — more noticeably dark areas — appear to have fringes of color round their edges.

You can adjust the horizontal and vertical convergence over the whole screen. You can also adjust separately the vertical convergence settings for the top and the bottom portions of the screen.

Select from the main menu. You will see one icon like this and three icons like this . Highlight the convergence setting you want to change, and use ← and → to adjust. For best results, adjust the horizontal and vertical convergence settings before adjusting the individual settings for the top and bottom portions of the screen.

Landing Use this control to correct variations in color temperature over the displayed image. You can adjust separately the beam landing in each corner of the screen.

Select from the main menu. You will see two icons like this: . Highlight the upper icon and then use ← and → to select the corner of the screen you wish to make an adjustment for. Then press ↓ to highlight the lower icon, and use ← and → to adjust.

Setting the Preferences of Your Display

Setting the Language of the On-Screen Menus

Select from the main menu. Use ↑ and ↓ to select the language you want.

Setting the Position of the On-Screen Menus

Horizontal Position Select from the main menu. Use ↑ and ↓ to highlight . Use ← and → to move the on-screen menu horizontally.

Vertical Position Select from the main menu. Use ↑ and ↓ to highlight . Use ← and → to move the on-screen menu vertically.

Locking and Unlocking the Controls of Your Display

From the main menu, select . Then use ↑ and ↓ to highlight , and press →. The controls of your display are now locked: if you attempt to adjust your display, a picture of a key will appear in the bottom left hand corner, and your settings will not be changed.

The only item available in the main menu is the item.

To unlock your display, select from the main menu. Then highlight and press ←. Your display is now unlocked.

Selecting a Video Input

If you have connected more than one computer to your display, by using the EVC input as well as the standard input, you can select which input is used.

From the main menu, select . Use ↑ and ↓ to highlight . Then use ← and → to select video input 1 (standard) or 2 (EVC).

Setting the Power Save Delay

If your display does not receive any input from your computer, it will wait a certain length of time, and then go into power saving mode. See "Minimizing Energy Consumption" further on for more details on your display's power management features.

To set this delay, select from the main menu. Use ↑ and ↓ to highlight . Then use ← and → to select your preferred delay.

Degaussing Your Display

Your display may need degaussing if you see color impurities in the displayed image, caused by magnetic interference.

Select from the main menu. Use ↑ and ↓ to to highlight Then press → to degauss your display.

NOTE

Your display degausses itself automatically when you turn it on. Do not degauss your display repeatedly — leave at least 20 minutes between attempts.

Fully Resetting Your Display

To fully reset you display, when no menu is displayed on the screen press and hold it down for more than two seconds. Your display will dim two times, and all settings, including brightness and contrast and language setting, will be deleted and those preset in the factory are restored.

NOTE

If the reset button doesn't seem to work, check that the controls of your display are not locked. Refer to "Locking and Unlocking the Controls of Your Display" above.

Getting Information About Your Display

Your display indicates the horizontal frequency and the vertical frequency of the current video mode whenever you adjust the brightness or the contrast level.

Setting the Amount of Displayed Information

To set the amount of displayed information, change the *screen resolution* of your PC. The higher the screen resolution, the more information you can see on the screen. It is recommended that you use a resolution of 1600 × 1200 at 85 Hz. This gives easy-to-read characters, a large amount of displayed information, and a flicker-free image.

To find out which resolutions are supported by your display, refer to "Supported Video Modes". To change the screen resolution, please refer to the manual that came with your PC or your operating system documentation, if necessary.

Your display has a Plug and Play capability (VESA DDC1/2B standard) that enables it to identify itself to suitably equipped HP Vectra PCs. This will automatically give you the best refresh rate for the resolution that you have set.

NOTE

If you have trouble configuring your operating system to work with your display, refer to the manual that came with your PC or your operating system documentation. Software updates and further information are available through Hewlett-Packard Electronic Information Services. Look on HP's website at http://www.hp.com, or dial into an HP BBS.

Minimizing Eye Strain

To avoid screen flicker and minimize eye strain, use the highest supported *image refresh rate* for the chosen resolution. It is recommended that you use a refresh rate of 85 Hz. The image refresh rate is the number of times per second that the image is refreshed.

To find out which image refresh rates are supported by your display, refer to "Supported Video Modes". To set the image refresh rate (also known as the *vertical frequency*), refer to the manual that came with your PC or your operating system documentation, if necessary. If your PC supports Plug and Play, it will automatically select the best refresh rate for the screen resolution you have set.

Supported Video Modes

Your display supports the video modes shown in the table below.

Screen Resolution	Image Refresh Rate	Video Solution
640×400	70 Hz	VGA
640×480	85 Hz	Ergonomic VGA
800×600	85 Hz	Ergonomic Super VGA
1024×768	75 Hz	Ergonomic Ultra VGA 1024
1024×768	85 Hz	Ergonomic Ultra VGA 1024
1280×1024	75 Hz	Ergonomic Ultra VGA 1280
1280×1024	85 Hz	Ergonomic Ultra VGA 1280
1600×1200	75 Hz	Ergonomic Ultra VGA 1600
1600×1200	85 Hz	Ergonomic Ultra VGA 1600

CAUTION

Selecting a screen resolution/image refresh rate combination higher than 1600 × 1200 at 85 Hz can damage your display.

Care and Cleaning

Do not place anything on top of the display. Doing so may block the display vents and cause damage to the display due to overheating.

Do not let liquid get on or into the display.

To maximize screen life and prevent damage to the picture tube (such as *burned phosphor* due to leaving the same image on the screen for a long time), it is recommended that you:

- Use the display power management system (on HP Vectra PCs) or a screen saver program.
- Avoid setting contrast and brightness to their maximum levels for prolonged periods.
- If you do not have a power management system or a screen saver program, switch the display off or reduce the brightness and contrast to minimum levels when the display is not in use.

Your display has an anti-glare, anti-static screen coating. To prevent damage to the display screen's coating, use a regular household glass cleaner when cleaning the screen. To clean the screen:

1 Switch the display off and remove the power plug (pull the plug, not the cable).

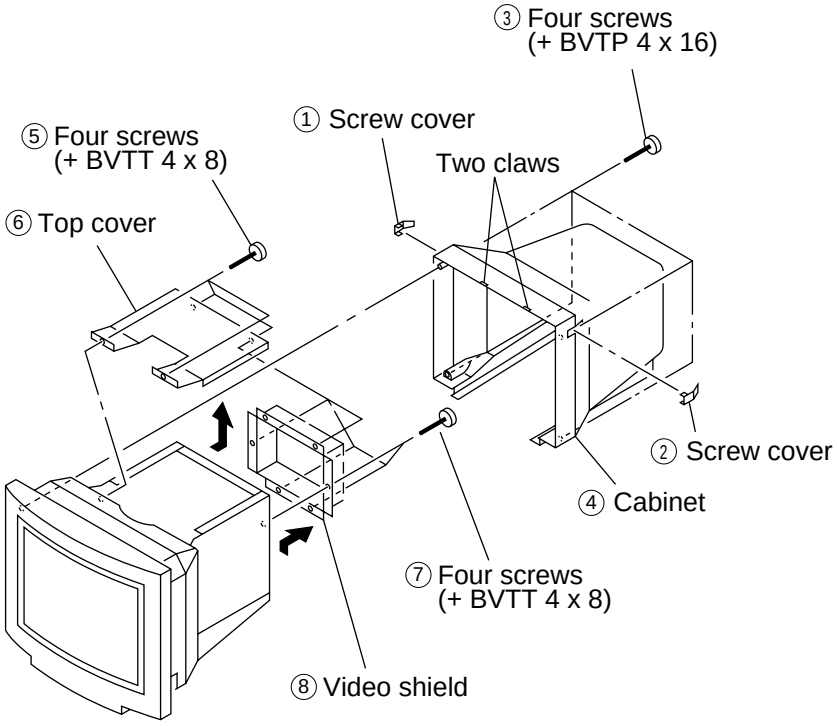
2 Wet a soft cotton cloth with the cleaning solution and gently wipe the screen. Do not spray cleaner onto the screen because the cleaner may drip inside the display.

3 Dry with a clean, soft cotton cloth.

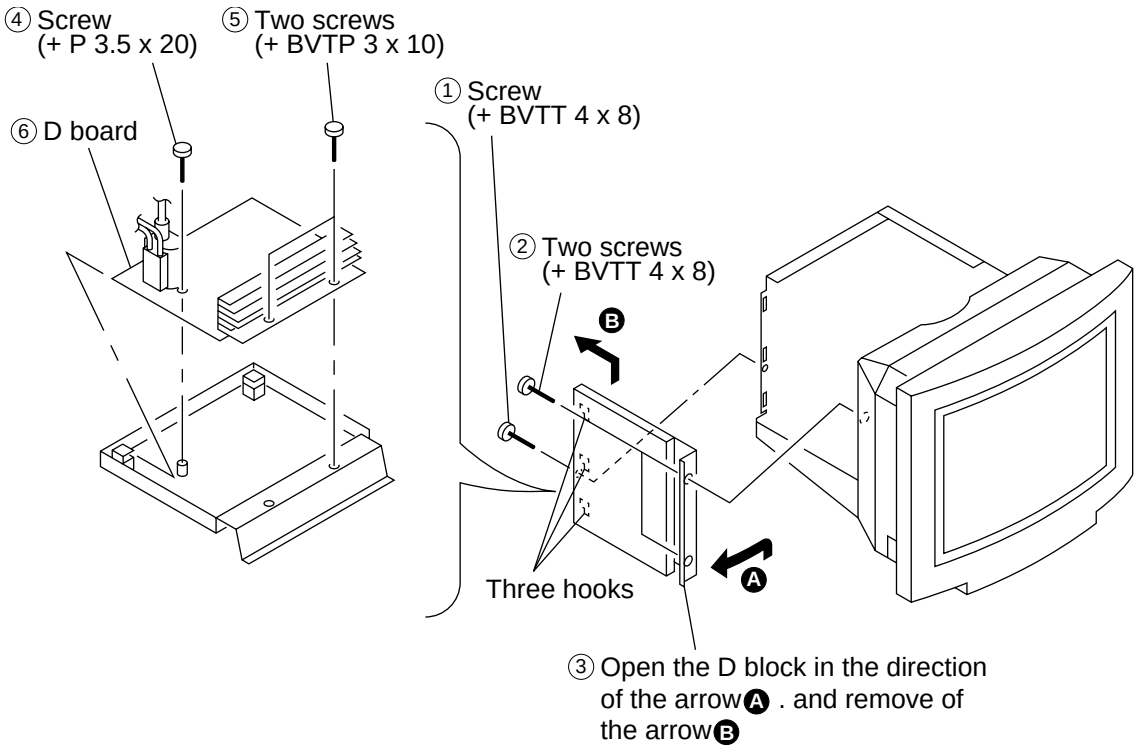
Do not use cleaning solutions containing fluoride, acids, or alkalis.

SECTION 2
DISASSEMBLY

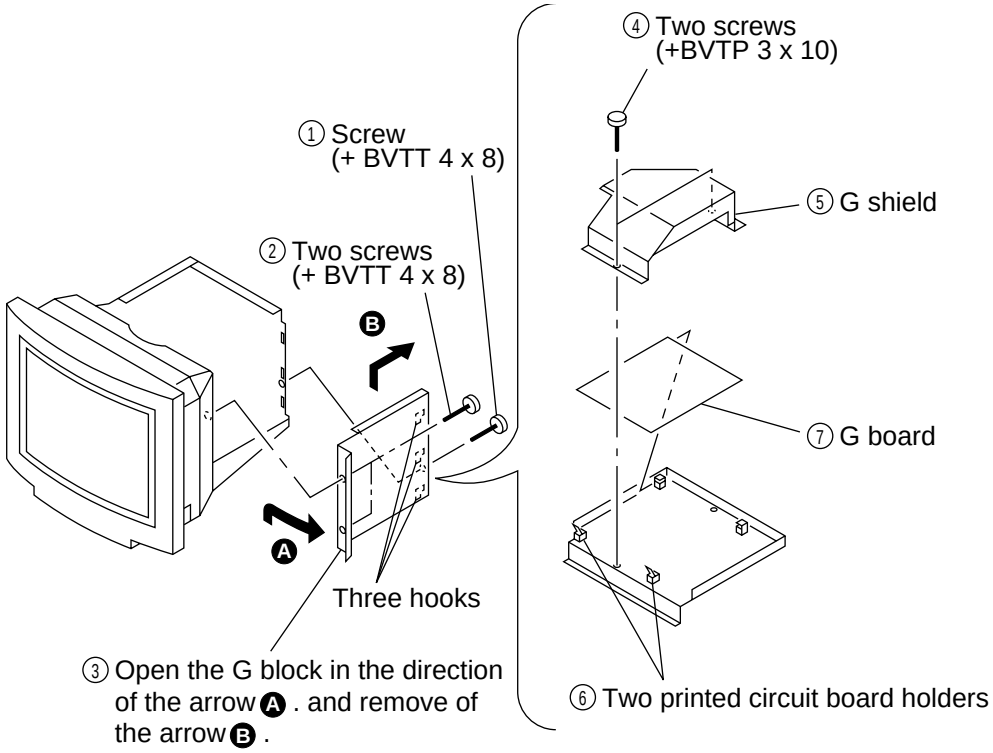
2-1. CABINET REMOVAL



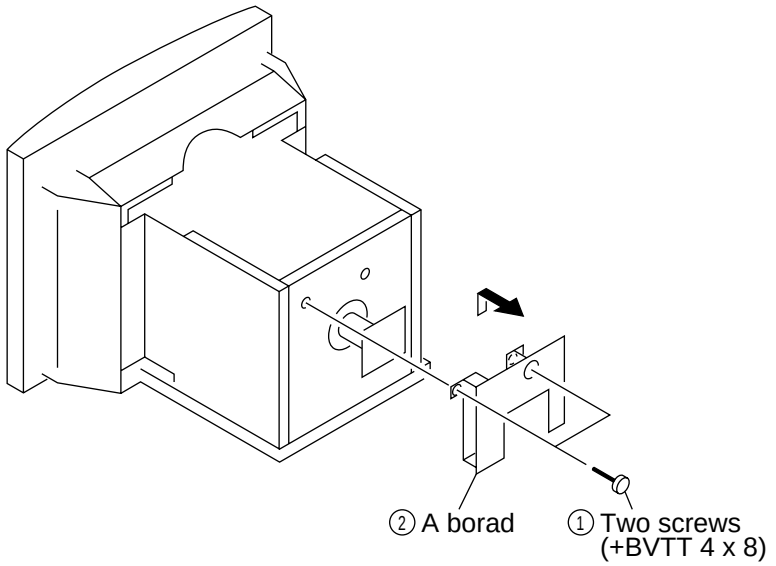
2-2. D BOARD REMOVAL



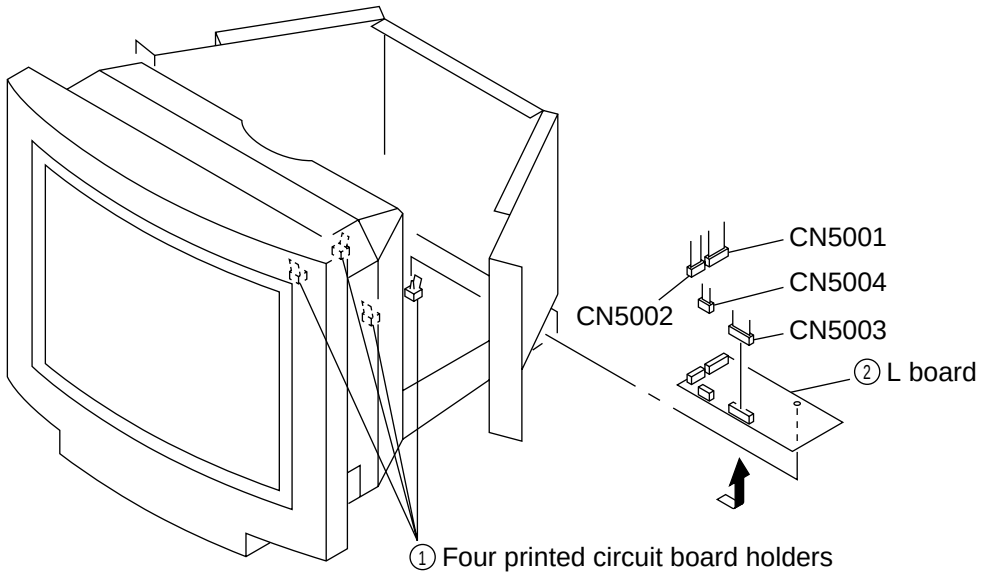
2-3. G BOARD REMOVAL


④ Two screws
(+BVTP 3 x 10)
① Screw
(+ BVTT 4 x 8)
⑤ G shield
② Two screws
(+ BVTT 4 x 8)
B
⑦ G board
A
Three hooks
③ Open the G block in the direction of the arrow A . and remove of the arrow B .
⑥ Two printed circuit board holders

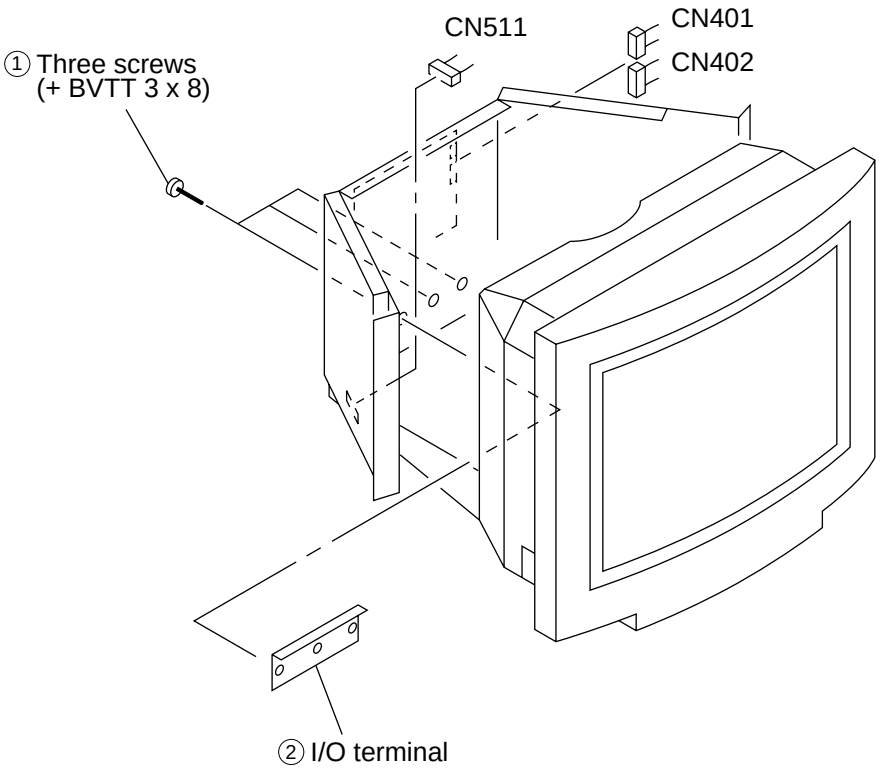
2-4. A BOARD REMOVAL



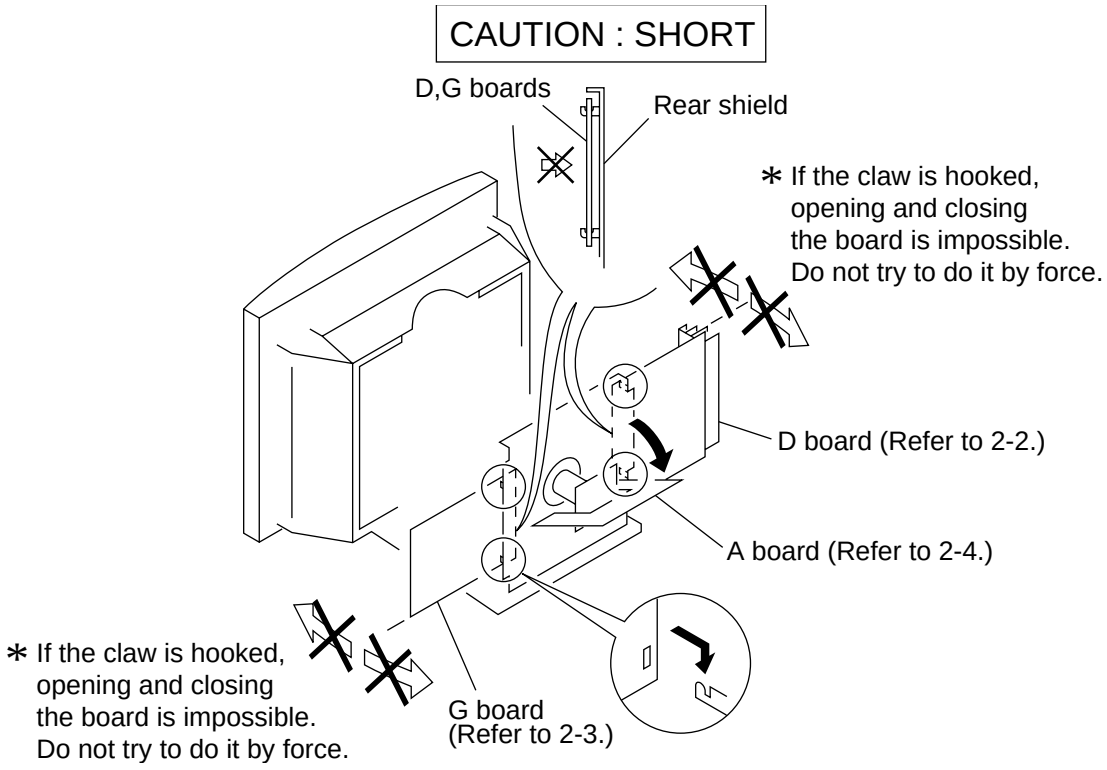
2-5. L BOARD REMOVAL



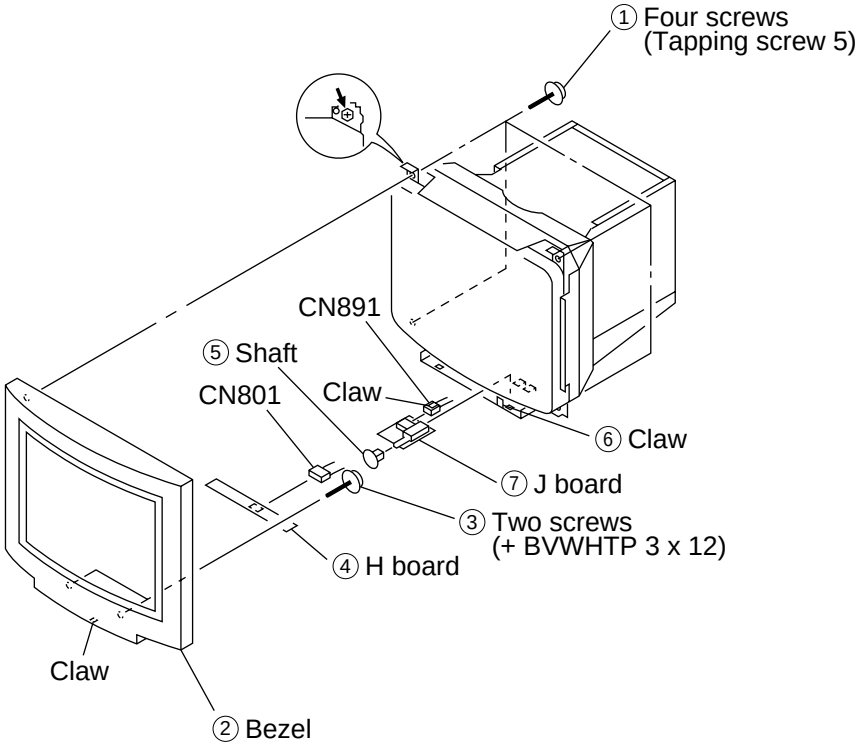
2-6. I/O TERMINAL BOARD REMOVAL



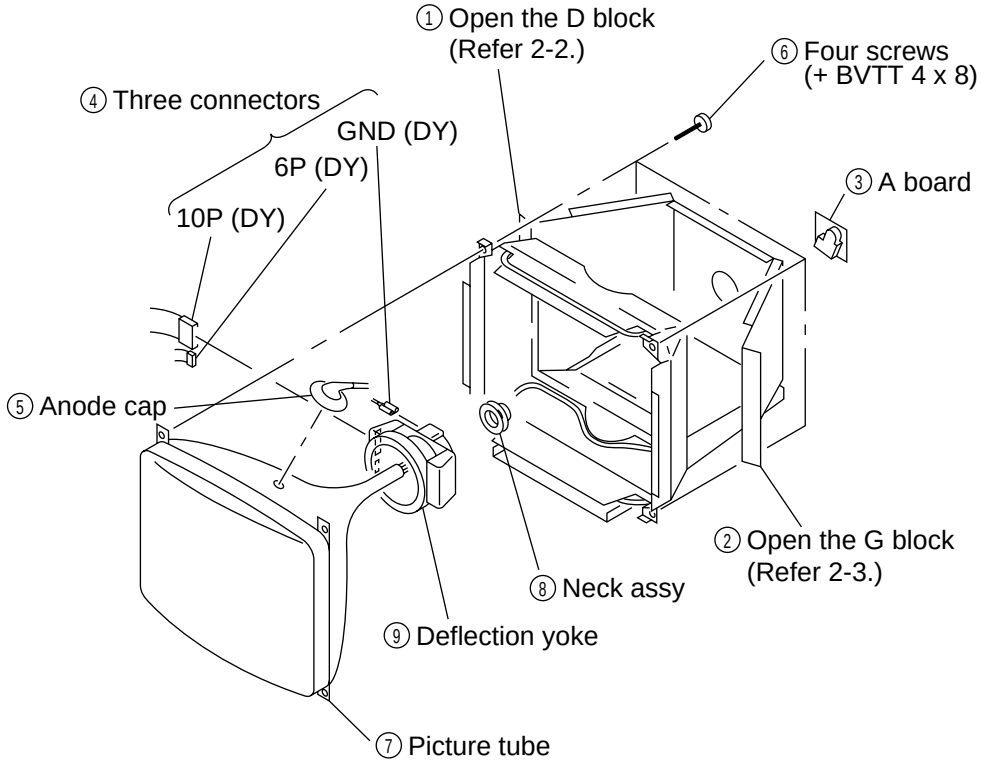
2-7. SERVICE POSITION


CAUTION : SHORT
D,G boards
Rear shield
* If the claw is hooked, opening and closing the board is impossible. Do not try to do it by force.
D board (Refer to 2-2.)
A board (Refer to 2-4.)
* If the claw is hooked, opening and closing the board is impossible. Do not try to do it by force.
G board (Refer to 2-3.)

2-8. H AND J BOARDS REMOVAL



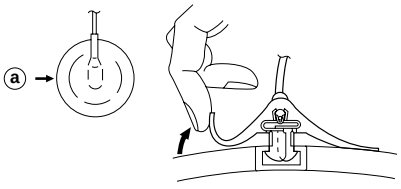
2-9. PICTURE TUBE REMOVAL



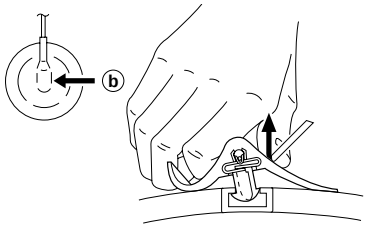
• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

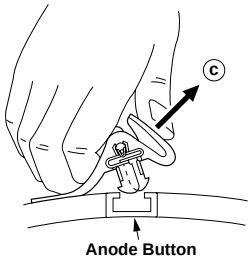
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



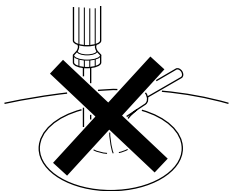
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

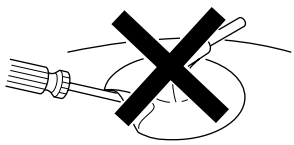


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with shartp shaped material!
② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (◪)
HV Regulator Circuit Check	D Board IC901, T902 • Mounted D board
HV Protector Circuit Check	D Board Q660, Q661, D916, D935, C924, R665, R667, R940, R980, T902 • Mounted D board G Board PH680, Q680, Q683, D680, R680, R685, R686, R687, R688, R689 • Mounted G board
Beam Current Protector Circuit Check	D Board IC901, D904, D907, D908, R011, R908, R909, R921, R925, R926, R929, R930, T902 • Mounted D board

Check Condition

Input voltage : 100 ~ 240 VAC
Input signal : White Cross Hatch at 107 kHz
Beam control : BRT and CONT → Minimum
B+ voltage : 195 ~ 205 VDC

a) HV Regulator Circuit Check

1) Confirm that the voltage of the pin ② of CN901 on D board is within the voltage range shown below.
Standard: 9.00 ± 0.065 VDC

b) HV Protector Circuit Check

1) Confirm that the HV protector circuit works and TV Raster disappears when apply the voltage as shown below between pin ③ of CN901 on D board and GND using an external DC power supply.
Check Condition: Less than 34.10 VDC

c) Beam Current Protector Circuit Check-1

1) Measure HV voltage and record that value.
2) Shorted between pin ① and pin ④ of CN901 on D board.
3) Connect to the Constant Current Jig (A) between pin ① of CN901 on D board and GND, confirm that the Beam Current Protector Circuit works and HV go down more than 1.25 kV from the value of (1).
Check Condition: 1.50 mA

d) Beam Current Protector Circuit Check-2

1) Connect to the Constant Current Jig (B) between pin ① of CN901 on D board and GND, confirm that the Beam Current Protector Circuit works and TV Raster disappears.
Check Condition: 1.59 mA

e) Voltage of 3rd winding of FBT

1) Confirm that the voltage of pin ③ of CN901 on D board is within the voltage range shown below.
Standard: more than 28.0 VDC

SECTION 4
ADJUSTMENTS

• Landing Rough Adjustment

1. Enter the full white signal. (or the full black dots signal).
2. Adjust the contrast to the maximum.
3. Make the screen monogreen.

Note: Off the outputs from R ch and B ch of SG.

4. Reverse the DY, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.
5. Adjust the tilt of DY, and fix lightly with a clamp.

Note: "TILT" shall be set at 0.

• Landing Fine Adjustment

1. Put the set inside the Helmholtz coil. ("LCC SW" = "12")
2. Input the single green signal and set the CONT control to MAX.

Note: After the W/B adjustment with 9300K, measure an average of SIk when a full white signal is entered in the CONT MAX/BRT CENT status. Then make adjustment so that the specified screen can be attained after aging for 2 hours with Ik equivalent to 30% of the average value.

3. Demagnetize the metal part of the chassis with the hand degausser and coil degausser, and the CRT surface with the hand degausser.
   Input AC 230V to AC IN, turn on and off the power to perform auto degaussing. (Perform auto degaussing by setting "MON CON REG2"=152. Return to the original value after use.)
   Demagnetize the CRT surface with the hand degausser again.

Note:

(1) Hand degauss must be used on stand-by or power-off condition.
   This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.
(2) Adjust in a non-magnetic field. BV=45uT.
(3) If adjusting in a magnetic fields, add the shift from the non-magnetic field in your estimation.

4. Attach the wobbling coil to the designated part of the CRT neck.
5. Attach the sensor of the landing adjustment unit on the CRT surface.
6. Adjust the DY position and purity, and the DY tilt, and landing of the center and 4 corners with the landing checker.
   After adjustment, set "LCC SW" to "13".
   - Write terrestrial magnetism sensor reading VX and VY to "LCC VX" and LCC VY" respectively. Adjust the landing by moving "LCC NS", "LCC LT", "LCC LB", "LCC RT" and "LCC RB". However, the register adjustment must be limited within the following range.
     "LCC NS" 128 ± 15
     "LCC LT", "LCC LB", "LCC RT", "LCC RB" 128 ± 40
     Save the service data.

<Specifications>

Adjust so that the green is within the specification given right.
4 corner adjust target : within ± 1

(µm)

0 ± 3	0 ± 7.5	0 ± 3
0 ± 5	0 ± 5	0 ± 5
0 ± 3	0 ± 7.5	0 ± 3

The red and blue must be within the specification given right with respect to the green.

(µm)

± 6	± 6	± 6
± 6	± 4	± 6
± 6	± 6	± 6

A difference between red and blue must be within the specification given right.

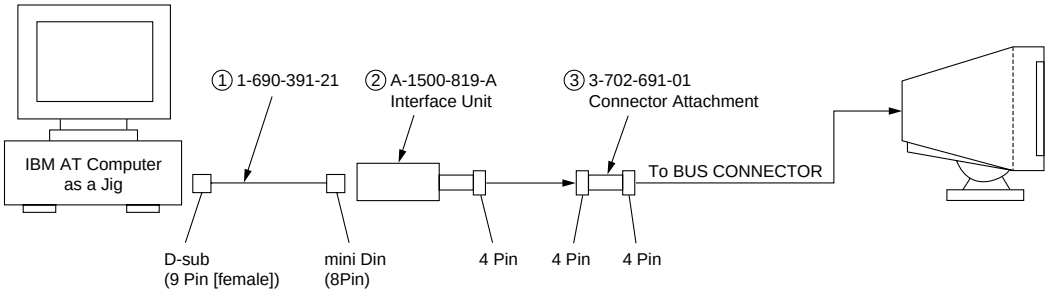
(µm)

10	10	10
10	7	10
10	10	10

* Adjustment and measurement should be made at the points one inch inside the fluorescent screen.

7. For the up/down swing, swing the DY and insert a wedge so that the up and down pins are equal at the top and bottom. Adjust the DY TLV VR so that the horizontal trapezoid is equal at the left and right. Insert the wedge firmly so that the DY does not shake.
8. Check the landing of each corner, and if it does not satisfy the specification, adjust the landing of four corners using "LCC LT", "LCC LB", "LCC RT" and "LCC RB".
   However, the register adjustment must be limited within the following range.
   "LCC NS" 128 ± 15
   "LCC LT", "LCC LB", "LCC RT", "LCC RB" 128 ± 40
   After adjustment, save the service data.
9. Remove the sensor and wobbling coil.
10. Switch the signal to R.G.B., and check that each color is pure.
11. Check that the DY is not tilting.

Connect the communication cable of the computer to the connector located on the D board on the monitor. Run the service software and then follow the instruction.



*The parts above (① ~ ③) are necessary for DAS adjustment.

- **Convergence Rough Adjustment**

(1) Receive an image of the white crosshatch signals (white lines on black).
(2) Place the protrusions of the 6-fold poles magnet attached to the CRT neck upon each other. (Fig. 1)
(3) Make rough adjustment of the H and V direction convergence by using 4-fold poles magnet.
(4) Make a rough adjustment of the V direction convergence by using "V. STAT".

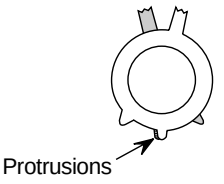


Fig. 1

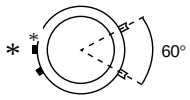


Fig. 3

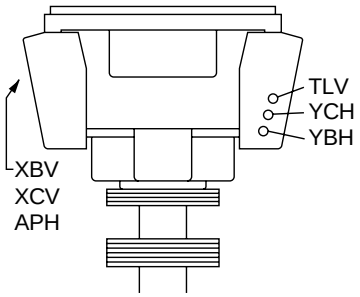
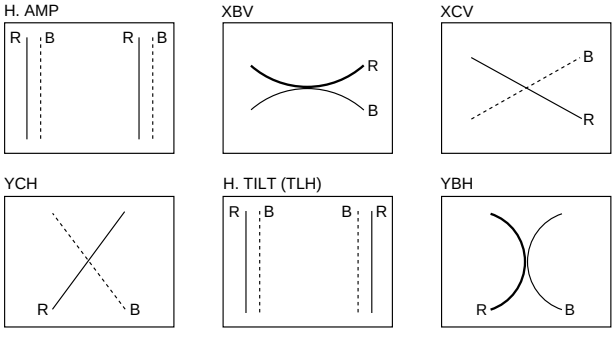
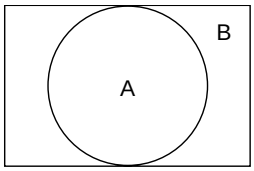


Fig. 2

* Set so that the protruding parts of the 2 magnet rings agree with each other.



- **Convergence Specification**



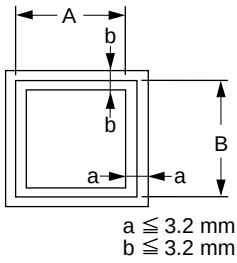
MODE	1, 2	3-14
A	0.24 mm	0.24 mm
B	0.24 mm	0.32 mm

- **White Balance Adjustment Specification**

(1) 9300K
x = 0.281 ± 0.005
y = 0.311 ± 0.005
(All White)

(2) 6500K
x = 0.313 ± 0.005
y = 0.329 ± 0.005
(All White)

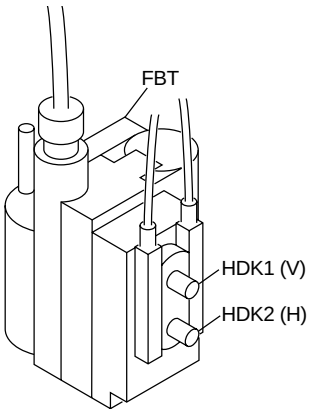
- **Vertical and Horizontal Position and Size Specification**



MODE	1-5, 9-10	6-8
A	388 mm	364 mm
B	291 mm	291 mm

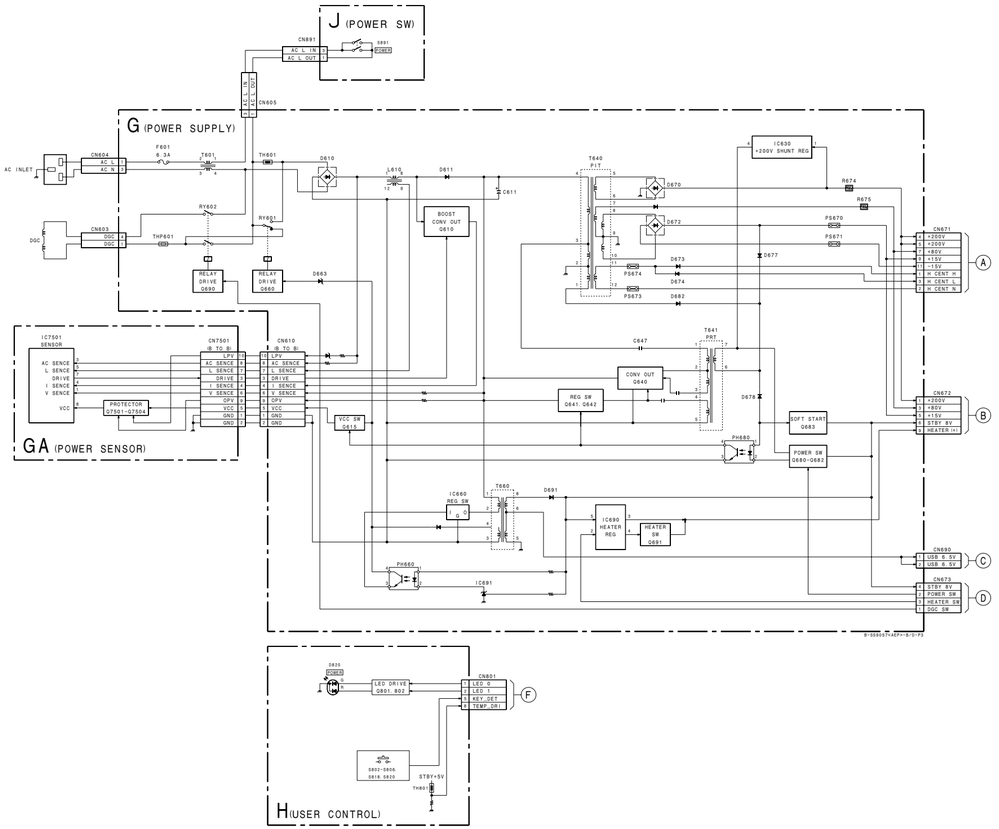
- **Focus adjustment**

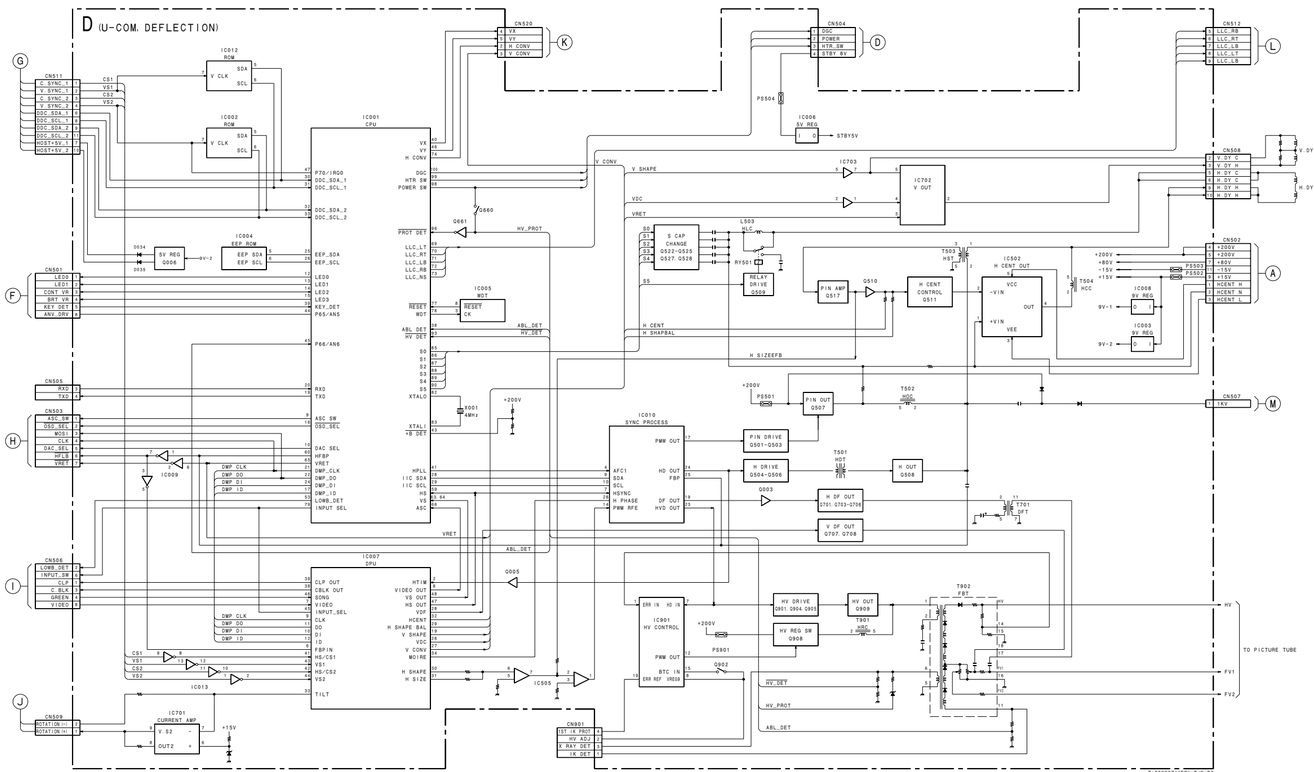
Adjust the focus volume 1 and 2 (HDK 1 and 2) for the optimum focus.



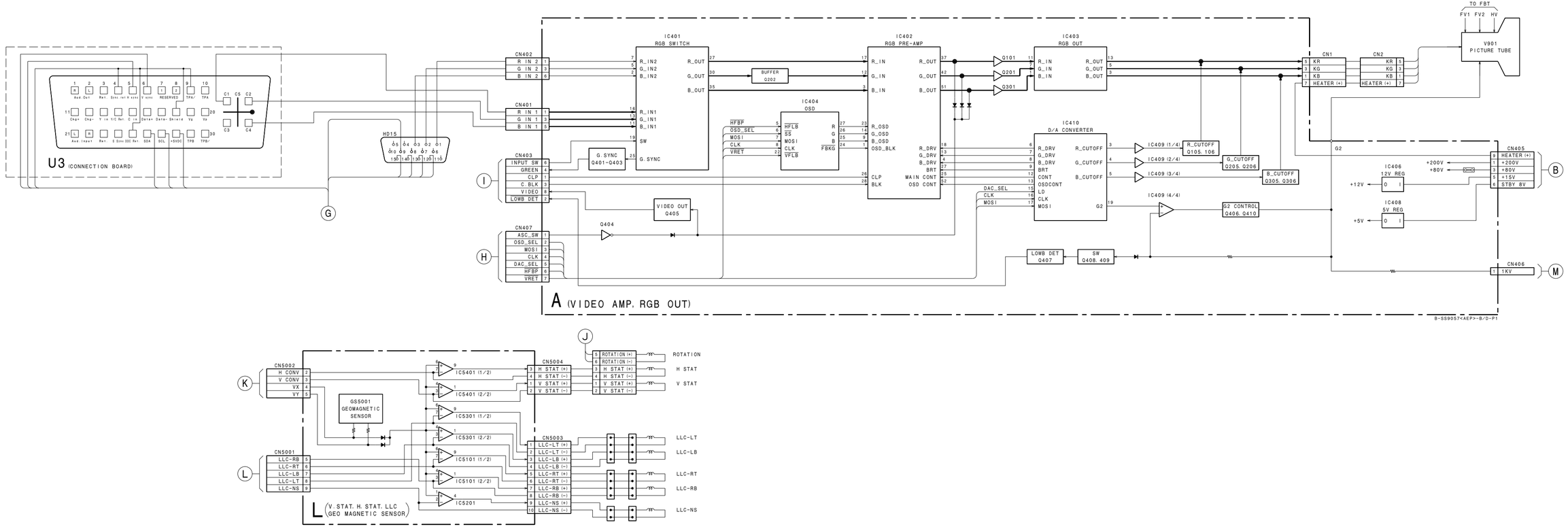
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAMS



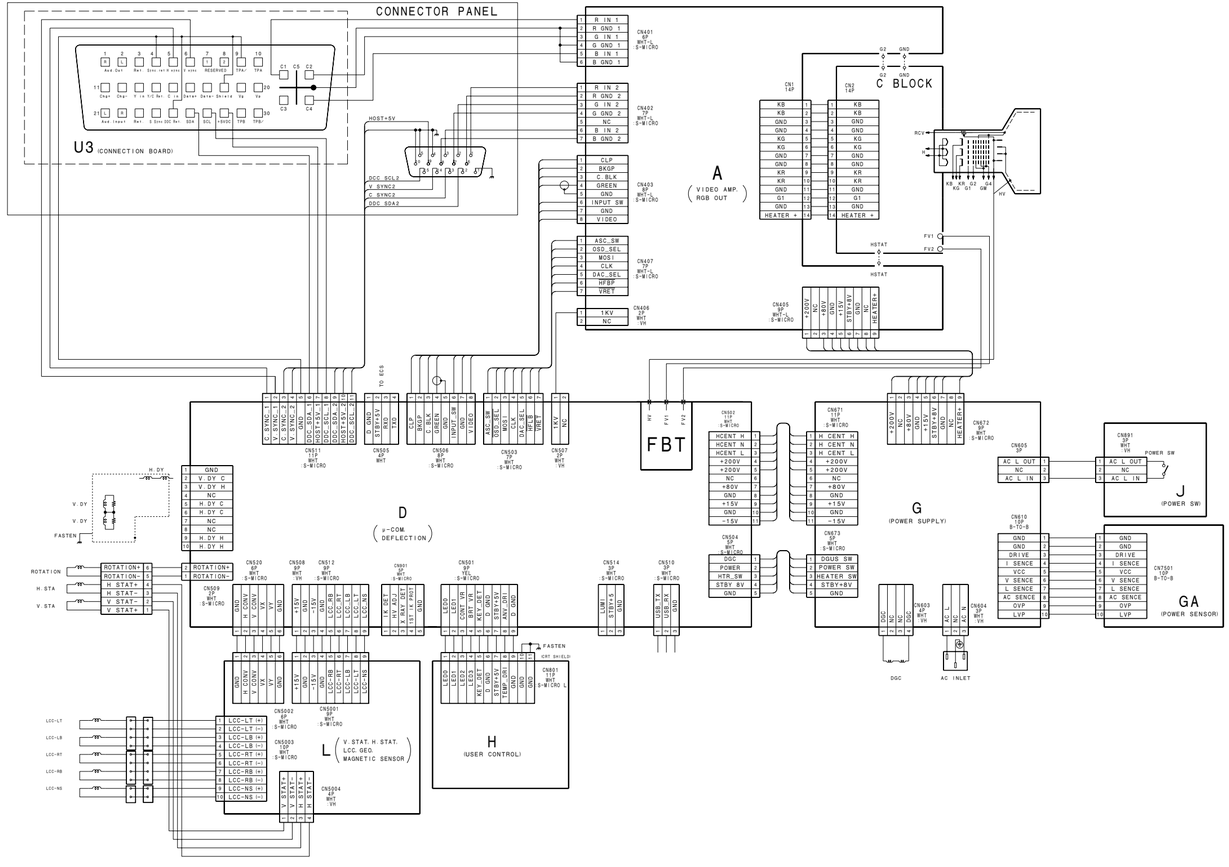


D2846 D2846

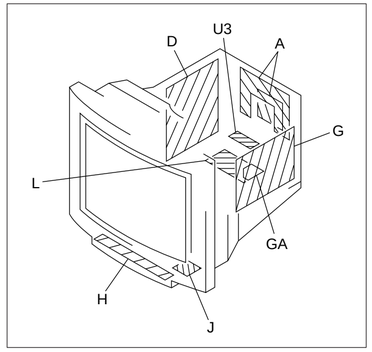

U3 (CONNECTION BOARD)
HD15
CN402
CN401
CN403
CN407
IC401 RGB SWITCH
IC402 RGB PRE-AMP
IC403 RGB OUT
IC404 OSD
IC410 D/A CONVERTER
BUFFER Q202
G.SYNC Q401~Q403
VIDEO OUT Q405
Q404
Q101
Q201
Q301
IC409 (1/4)
IC409 (2/4)
IC409 (3/4)
IC409 (4/4)
R_CUTOFF Q105. 106
G_CUTOFF Q205. Q206
B_CUTOFF Q305. Q306
G2 CONTROL Q406. Q410
LOWB DET Q407
SW Q408. 409
CN1
CN2
TO FBT
V901 PICTURE TUBE
IC406 12V REG
IC408 5V REG
CN405
CN406
A (VIDEO AMP, RGB OUT)
B-SS9057<AEP>-B/D-P1

CN5002
CN5001
GS5001 GEOMAGNETIC SENSOR
IC5401 (1/2)
IC5401 (2/2)
IC5301 (1/2)
IC5301 (2/2)
IC5101 (1/2)
IC5101 (2/2)
IC5201
CN5004
CN5003
ROTATION
H STAT
V STAT
LLC-LT
LLC-LB
LLC-RT
LLC-RB
LLC-NS
L (V. STAT, H. STAT, LLC GEO MAGNETIC SENSOR)

5-2. FRAME SCHEMATIC DIAGRAM



5-3. CIRCUIT BOARDS LOCATION



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ＊ : Can not be measured.
- Circled numbers are waveform references.
- ——— : B + bus.
- ▬ ▬ ▬ : B – bus.

5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. (pF: µµF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. (See page 18)
- When replacing the part in below table, be sure to perform the related adjustment.

	Part replaced (◪)	
HV Regulator Circuit Check	D Board	IC901, T902 • Mounted D board
HV Protector Circuit Check	D Board	Q660, Q661, D916, D935, C924, R665, R667, R940, R980, T902 • Mounted D board
	G Board	PH680, Q680, Q683, D680, R680, R685, R686, R687, R688, R689 • Mounted G board
Beam Current Protector Circuit Check	D Board	IC901, D904, D907, D908, R011, R908, R909, R921, R925, R926, R929, R930, T902 • Mounted D board

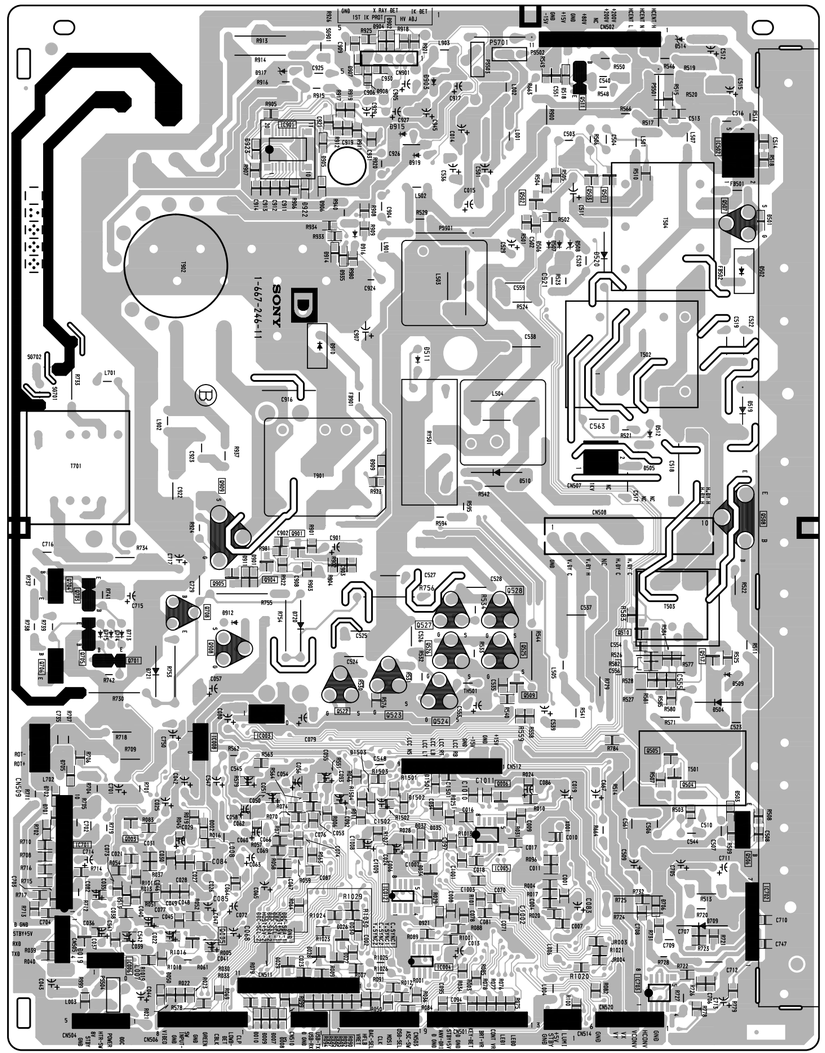
Terminal name of semiconductors in silk screen printed circuit (＊)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector Base Emitter	
②	Transistor	▬	Collector Base Emitter	
③	Diode	⊓	Cathode Anode	
④	Diode	T	Cathode Anode (NC)	
⑤	Diode	▬	Cathode Anode (NC)	
⑥	Diode	T	Common Anode Cathode	
⑦	Diode	▬	Common Anode Cathode	
⑧	Diode	T	Common Anode Anode	
⑨	Diode	▬	Common Anode Anode	
⑩	Diode	T	Common Cathode Cathode	
⑪	Diode	▬	Common Cathode Cathode	
⑫	Transistor (FET)	▌	Drain Source Gate	
⑬	Transistor (FET)	▙	Drain Source Gate	
⑭	Transistor (FET)	▌	Source Drain Gate	
⑮	Transistor	▌	Emitter Collector Base	
–	Discrete semiconductot			

(Chip semiconductors that are not actually used are included.)

Ver.1.4

— D BOARD (Conductor Side) —



• D BOARD SEMICONDUCTOR LOCATION

IC

	(Conductor Side)	(Component Side)
IC001		E–2
IC002		E–3
IC003	D–2	D–3
IC004	E–2	
IC005	D–3	
IC006	E–1	E–4
IC007		E–3
IC008	D–1	D–3
IC009		D–2
IC010		E–4
IC012	E–2	
IC013		E–3
IC014		E–1
IC015		E–3
IC502	A–4	A–1
IC505		D–3
IC701	D–1	D–1
IC702	E–4	E–1
IC703	E–4	
IC901	A–2	

TRANSISTOR

	(Conductor Side)	(Component Side)	✻
Q001		D–4	②
Q003	D–1		①
Q005	E–1		①
Q501	A–3		①
Q502	A–3		①
Q503	A–3		①
Q504	D–4		①
Q505	D–4		①
Q506	D–4	D–1	–
Q507	A–4	A–1	–
Q508	C–4	C–1	–
Q509	D–3		①
Q510	C–3		①
Q511	A–3	A–2	–
Q512		D–2	②
Q513		D–3	②
Q517	D–4		①
Q522	D–2	D–3	–
Q523	D–2	D–3	–
Q524	D–3	D–2	–
Q525	D–3	D–2	–
Q527	C–3	C–2	–
Q528	C–3	C–2	–
Q660		D–2	②
Q661		D–2	②
Q701	D–1	D–4	–
Q703	C–1	C–4	–
Q704	C–1	C–4	–
Q705	C–1	C–4	–
Q706	D–1	C–4	–
Q707		D–3	②
Q708	C–1	C–4	–
Q901	C–2		①
Q902		A–3	②
Q904	C–2		①
Q905	C–2		①
Q908	C–2	C–3	–
Q909	C–2	C–3	–

DIODE

	(Conductor Side)	(Component Side)	✻
D001		E–2	③
D003		E–3	③
D004		E–2	⑦
D005		E–2	③
D007	E–2		③
D008	E–2		③
D009	E–2		③
D010	E–2		③
D011		E–2	③
D012		E–2	⑦
D013		E–2	⑦
D014		E–2	⑦
D015		E–2	⑦
D016		E–2	⑦
D019	E–1		⑧
D020		E–4	⑦
D025		D–4	③
D026	E–2		⑥
D027	E–2		⑥
D028	E–2		⑥
D029	E–2		⑥
D030	E–2		③
D050	E–1		③
D051		E–2	⑦
D501	A–4		③
D502	B–4	B–1	–
D503	D–4		③
D504	D–4	D–1	–
D505	C–4	C–1	–
D506	B–3	B–2	–
D507	B–3	B–2	–
D508	B–3	B–2	–
D509	D–4	D–1	–
D510	C–3	C–2	–
D511	B–2	B–2	–
D512	C–4	C–1	–
D513	E–1		③
D514	A–4	A–1	–
D515		D–3	③
D516		D–2	③
D518	A–3		③
D519	B–4	B–1	–
D520	B–3	B–2	–
D660		D–1	③
D701	D–1		③
D702	D–1		③
D703		E–4	③
D704		D–4	③
D705	D–1		③
D706	D–1		③
D709	E–4	E–1	–
D713	C–1	C–4	–
D714	C–1	C–4	–
D715	C–1	C–4	–
D718		D–4	③
D720	C–2	C–3	–
D721	D–1	D–4	–
D901	C–2		③
D902	A–2		③
D903	A–2	A–2	–
D904	A–2		③
D905	A–2		③
D906	A–2		③
D907	A–2		③
D908	A–2		③
D909	C–2		③
D910	B–2	B–3	–
D911	C–2		③
D913		A–3	③
D914	B–2		③
D915	A–2	A–2	–
D916	B–2	B–3	–
D917	A–2	A–3	–
D919	A–2	A–2	–
D921	E–3		③
D935	B–2		③
D1501	D–3		③
D1502	D–2		③
D1503	D–2		③

CRYSTAL

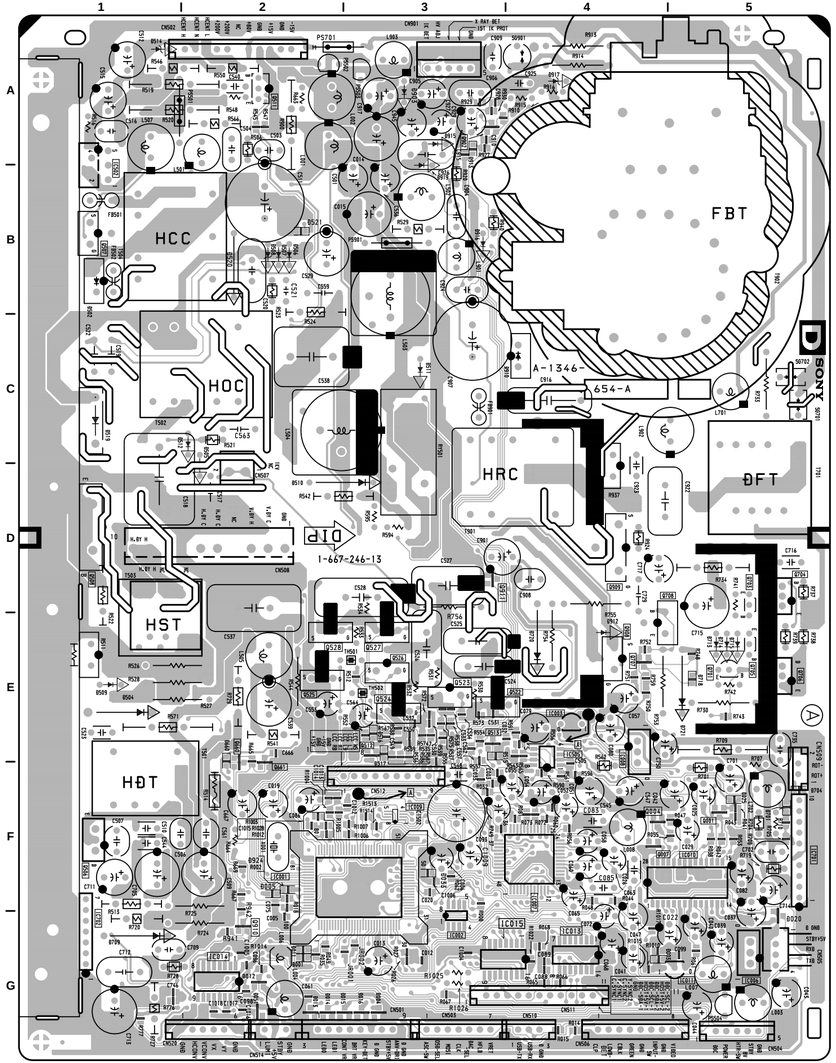
	(Conductor Side)	(Component Side)
X001	D–3	D–2

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 29)

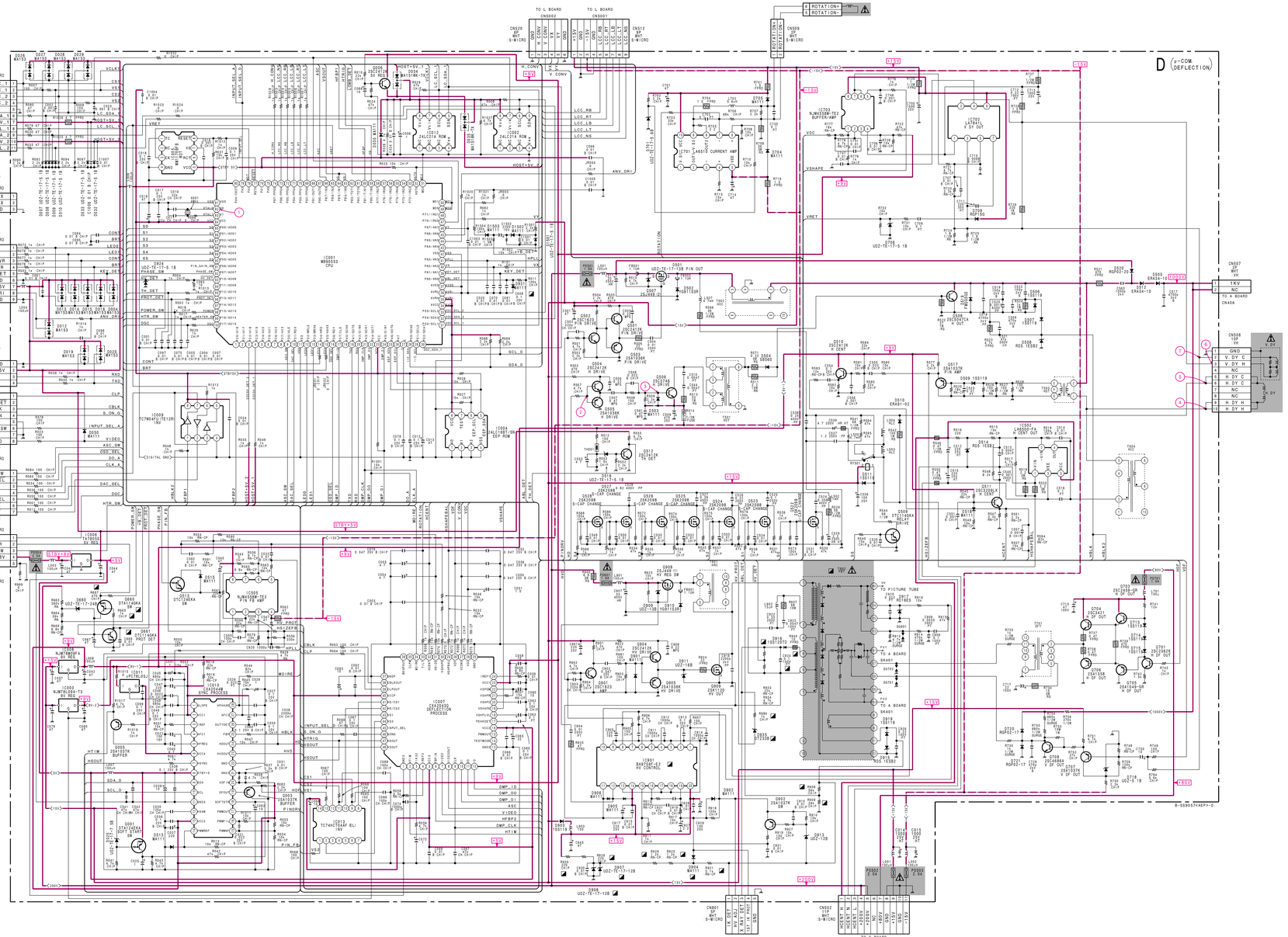
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— D BOARD (Component Side) —

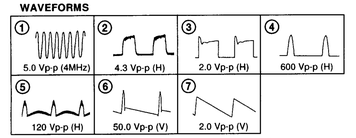
D µ-COM, DEFLECTION



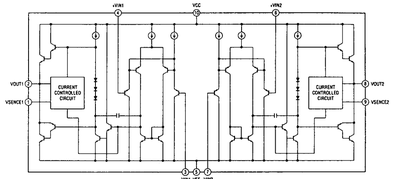
(1) Schematic Diagram of D Board



• **D BOARD WAVEFORMS**

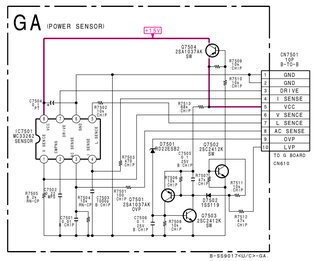


• **D BOARD IC701 LA6510**



• **D BOARD VOLTAGE LIST**

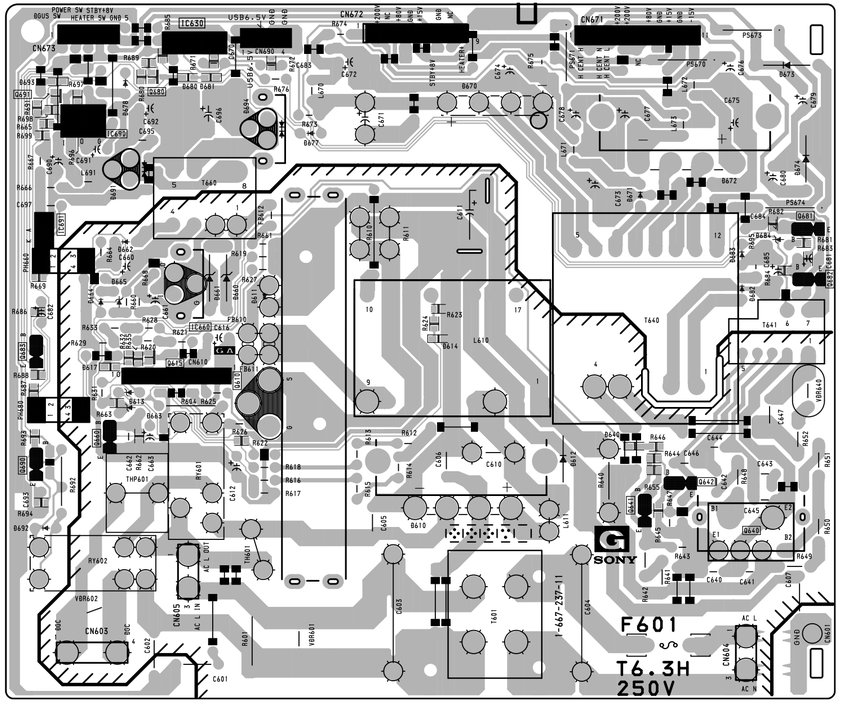
Ref.	Pin No.	Voltage [V]
IC002	5	1.1
	6	4.2
	7	0
IC004	5	4.8
	6	4.8
IC005	1	0.4
	3	0
	7	1.5
	8	4.8
IC009	1	–0.1
	2	4.7
	3	4.5
	5	0.3
	6	0.3
	7	4.5
IC010	1	4.0
	3	3.0
	4	2.8
	5	2.3
	6	2.6
	7	0.6
	9	4.8
	10	4.8
	12	5.4
	14	4.5
	15	4.5
	16	5.4
	17	1.0
	18	0
	19	5.1
	20	3.7
	23	0.8
	24	2.5
	25	–0.1
	26	4.0
	27	4.0
	28	4.4
IC012	5	0.6
	6	3.9
	7	4.1
IC013	1	0
	2	4.9
	8	0.6
	9	3.6
	10	4.9
	11	0
	13	5.7
IC014	1	3.5
	3	3.5
	5	2.7
	9	0
	10	0.1
	12	4.9
	13	4.9
	14	3.2
	15	3.9
IC015	1	0.5
	2	4.2
	3	0.5
	4	0.5
	5	0
	6	0
	8	0
	9	0
	13	0
IC502	1	41.4
	2	41.4
	3	33.7
	4	42.3
	5	48.3
IC505	1	4.5
	2	0
	4	0
	5	0
	6	0
	7	–10.0
IC701	1	14.2
	2	14.2
	3	0
	4	3.6
	6	3.0
	7	3.0
	8	–0.7
	9	–0.7
IC702	2	0.4
	3	13.5
	4	1.2
	5	1.2
	7	–13.0
IC703	1	1.2
	2	1.6
	3	1.6
	5	2.8
	6	2.8
	7	2.8
IC901	1	9.3
	2	5.6
	4	5.0
	6	1.1
	7	0.9
	8	9.3
	10	0
	11	0
	12	11.2
	15	0
	16	8.4
	19	9.2
Q003	B	5.1
	C	0
	E	5.7
Q005	B	2.5
	C	0
	E	3.1
Q501	B	11.2
	C	13.8
	E	10.8
Q502	B	0.2
	C	11.2
Q503	B	11.2
	E	10.9
Q504	B	2.5
	C	12.0
	E	2.5
Q505	B	2.5
	E	2.4
Q506	B	–14.0
	C	–0.2
	E	–14.0
Q507	G	197.4
	D	41.8
Q508	B	–1.4
	C	41.0
Q509	B	0
	C	14.1
Q510	B	4.5
	E	3.9
Q511	B	3.2
	C	33.5
	E	2.6
Q517	B	4.6
	E	5.1
Q522	G	0
	D	15.2
Q523	G	4.7
	D	0
Q524	G	4.7
	D	0
Q525	G	4.7
	D	0
Q527	G	4.7
	D	0
Q528	G	4.7
	D	0
Q660	B	4.2
	C	0
	E	4.2
Q661	B	0
	E	4.2
Q701	B	5.7
	C	36.0
	E	5.1
Q703	B	37.9
	E	37.4
Q704	B	37.4
	E	37.0
Q705	B	36.0
	E	36.6
Q706	B	36.6
	E	37.0
Q707	B	–0.6
	C	–5.0
	E	0
Q708	B	0.6
	C	477.0
Q901	B	0.1
	C	9.9
Q902	B	9.0
	C	0
	E	9.0
Q904	B	8.6
	C	13.0
	E	8.4
Q905	B	8.6
	E	8.4
Q908	G	196.6
	D	40.1
Q909	G	8.4
	D	40.4


GA (POWER SENSOR)
+5V
C7504 1SA1037AK SM
R7509 22K 1/4W
R7510 22K 1/4W
IC7501 MC33262V-1 SENSOR
R7501 10K 1/4W
R7502 10K 1/4W
R7503 10K 1/4W
R7504 10K 1/4W
R7505 10K 1/4W
C7501 0.1 50V
C7502 0.1 50V
C7503 0.1 50V
C7504 0.1 50V
C7505 0.1 50V
C7506 0.1 50V
C7507 0.1 50V
C7508 0.1 50V
C7509 0.1 50V
C7510 0.1 50V
C7511 0.1 50V
C7512 0.1 50V
C7513 0.1 50V

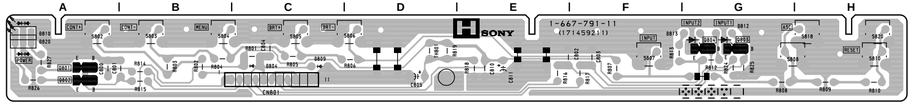
G [POWER SUPPLY] GA [POWER SENSOR]

H [USER CONTROL] L [V.STAT, H.STAT, LLC, GEO MAGNETIC SENSOR]

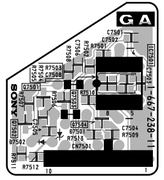
— G BOARD —



— H BOARD —



— GA BOARD —

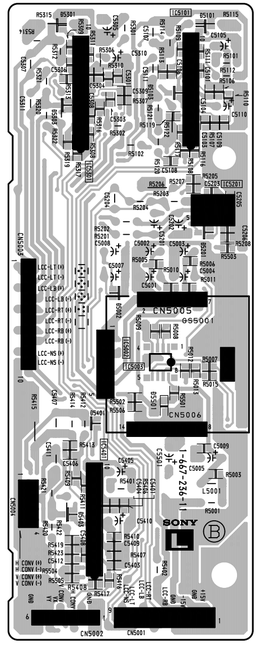


GA BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

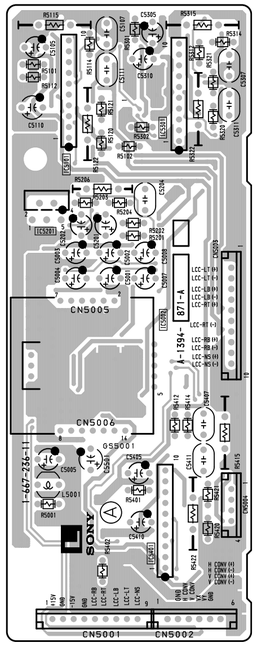
Ref.	∗
Q7501–Q7504	①

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 29)

— L BOARD (Conductor Side) —



— L BOARD (Component Side) —



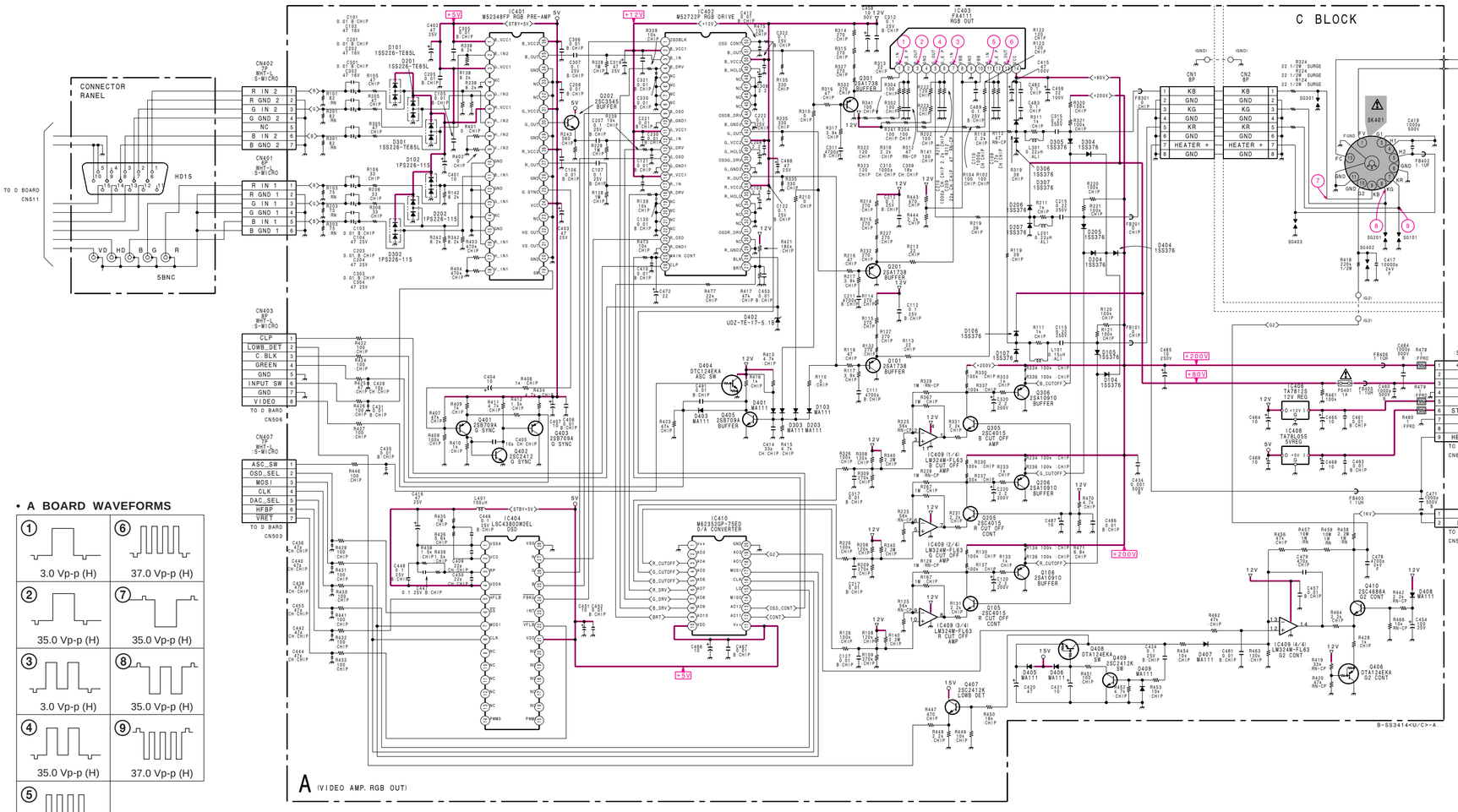
L BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
D5501	③
D5101, D5103, D5201, D5301, D5303, D5401, D5403	⑥
D5002	⑧

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 29)

Schematic diagram
A board ➡

(3) Schematic Diagram of A Board



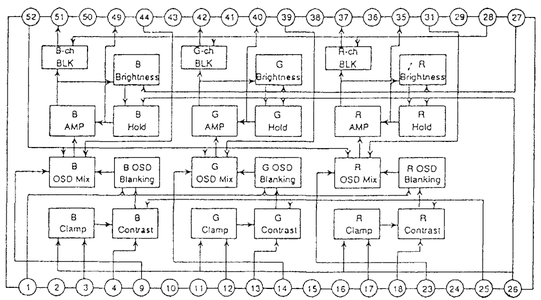
• A BOARD WAVEFORMS

①	3.0 Vp-p (H)	
②	35.0 Vp-p (H)	
③	3.0 Vp-p (H)	
④	35.0 Vp-p (H)	
⑤	3.0 Vp-p (H)	
⑥	37.0 Vp-p (H)	
⑦	35.0 Vp-p (H)	
⑧	35.0 Vp-p (H)	
⑨	37.0 Vp-p (H)	

• A BOARD VOLTAGE LIST

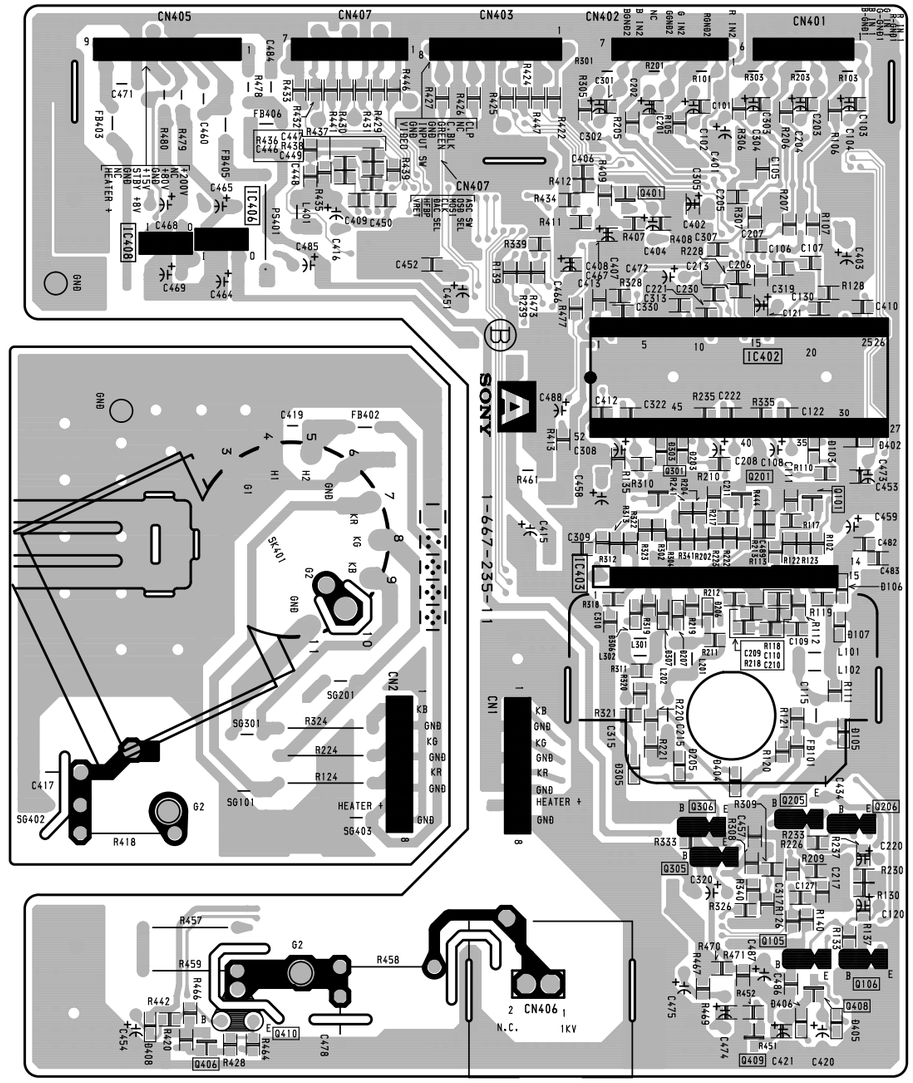
Ref.	Pin No.	Voltage [V]
IC402	1	1.1
	3	2.8
	4	3.7
	9	1.1
	12	2.8
	13	3.8
	14	1.1
	17	2.8
	18	3.9
	23	1.1
	25	3.9
	26	0.7
	27	2.4
	28	1.2
	35	4.4
	37	2.7
	40	4.4
	42	2.7
	49	4.4
	51	2.7
	52	2.1
IC403	1	3.4
	2	2.8
	3	53.6
	5	52.7
	6	2.9
	7	3.4
	8	9.8
	10	9.8
	11	3.5
	12	2.9
	13	52.3
Q101	B	2.8
	E	3.5
Q105	B	7.3
	C	112.6
	E	6.8
Q106	B	112.6
	E	113.3
Q201	B	2.7
	E	3.5
Q205	B	7.4
	C	109.9
	E	6.8
Q206	B	109.9
	E	110.4
Q301	B	2.7
	E	3.4
Q305	B	7.4
	C	113.1
	E	6.8
Q306	B	113.1
	E	113.7
Q401	B	3.6
	C	0.7
	E	4.3
Q406	B	7.9
	E	9.0
Q410	B	9.7
	C	484.0
	E	9.1
SK401	KR	87.0
	KG	87.0
	KB	87.0
	G2	474.0
	H2	6.5

• A BOARD IC402 M52722P



A [VIDEO AMP RGB OUT]

— A BOARD (Conductor Side) —



- **A BOARD SEMICONDUCTOR LOCATION**

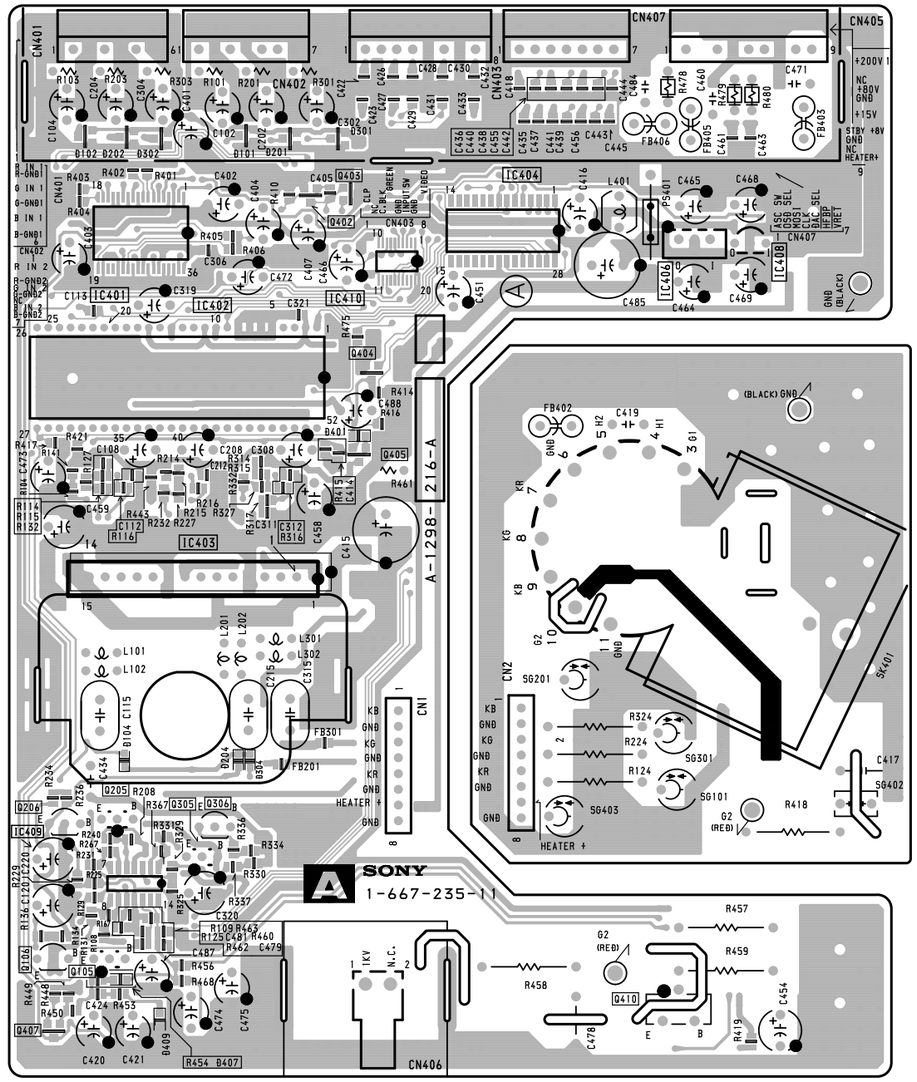
IC	(Conductor Side)	(Component Side)
IC401		A–1
IC402	B–3	B–1
IC403	B–3	B–1
IC404		A–2
IC406	A–1	A–3
IC408	A–1	A–3
IC409		C–1
IC410		A–2

TRANSISTOR	(Conductor Side)	(Component Side)	✻
Q101	B–3		①
Q105	D–3	D–1	–
Q106	D–3	D–1	–
Q201	B–3		①
Q205	C–3	C–1	–
Q206	C–3	C–1	–
Q301	B–3		①
Q305	C–3	C–1	–
Q306	C–3	C–1	–
Q401	A–2		①
Q402		A–1	②
Q403		A–2	②
Q404		B–2	②
Q405		B–2	②
Q406	D–1		①
Q407		D–1	②
Q408	D–3		①
Q409	D–3		①
Q410	D–1	D–3	–

DIODE	(Conductor Side)	(Component Side)	✻
D101		A–1	⑦
D102		A–1	⑦
D103	B–3		③
D104		C–1	③
D105	C–3		③
D106	B–3		③
D107	B–3		③
D201		A–1	⑦
D202		A–1	⑦
D203	B–3		③
D204		C–1	③
D205	C–3		③
D206	B–3		③
D207	B–3		③
D301		A–2	⑦
D302		A–1	⑦
D303	B–3		③
D304		C–1	③
D305	C–2		③
D306	B–2		③
D307	B–3		③
D401		B–2	③
D402	B–3		③
D404	C–3		③
D405	D–3		③
D406	D–3		③
D407		D–1	③
D408	D–1		③
D409		D–1	③

✻: **Refer to Terminal name of semiconductors in silk screen printed circuit (see page 29)**

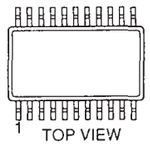
— A BOARD (Component Side) —



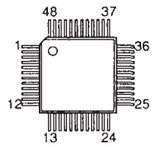
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

5-4. SEMICONDUCTORS

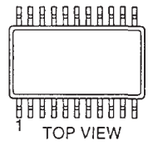
BA9756FS-E2
M62352GP-75E
M62352GP-75ED



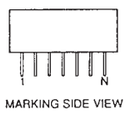
CXA2043Q



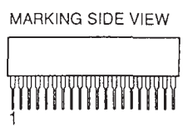
CXA2044M
LSC4380DW2EL



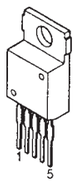
DM-60



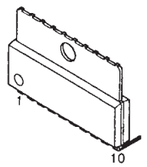
FA4111



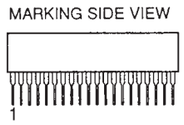
LA6500-FA



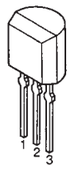
LA6510



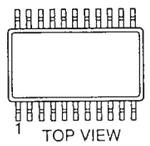
LA7841L



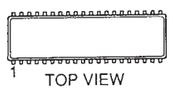
LM2931Z-5.0
MM1180GTT



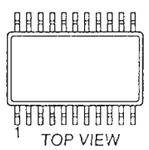
LM324M
TC74HCT04AF



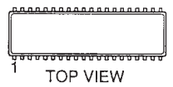
MC33262P
MM1170BFB



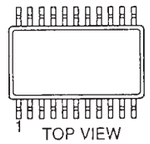
M52348FP



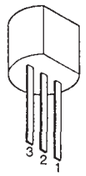
M52722P



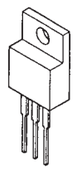
NJM4558M
TC7W04FU
µPC4558G2
24LC16BT/SN
24LC21A/SN



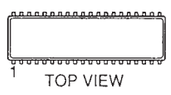
NJM78L05A
NJM78L09A
TA78L05S
TA78L09S



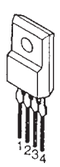
NJM78M09FA
TA7805S
TA7812S



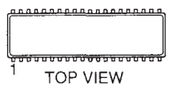
PDIUSBH11NB



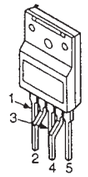
PQ05RD1B



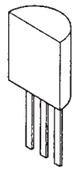
P87C748EBP



SI-3050F



µPC1093J



DTA114GKAT146
DTA114TKA-T146
DTA124EKA-T146
DTC114GKAT146
DTC114TKA-T146
DTC124EK
DTC124EKA-T146
2SA1036K-Q
2SA1036K-T-146-Q
2SA1037AK-T-146-QR
2SA1037AK-T146-R
2SA1037K-T-146-QR
2SA1162G
2SA1462-Y33
2SA1738-TX
2SB709A-QRS-TX
2SC1623-L5L6
2SC2411K-CQ
2SC2411K-T-146-CQ
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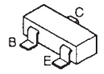
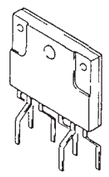


MX0841AB-F



IRFI9630GS
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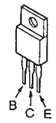
2SC4686A (LBSONY)
2SJ449
2SJ449 (1)
2SJ449 (2)



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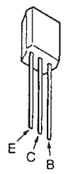
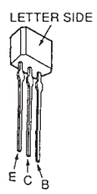
2SC2458-YGR
2SC2459-GR

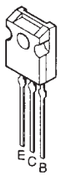


2SA1091-O
2SC2362K-G

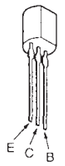
2SA1175-HFE
2SA1309A-QRSTA
2SC2784
2SC2785-HFE
2SC3311A-QRSTA



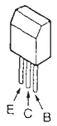
2SA1358-Y



2SC2362KG-AA



2SC3209LK



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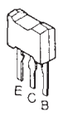

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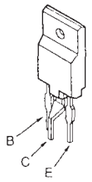

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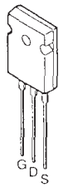
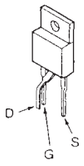
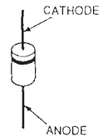


2SK2195F04



AG01A-V0
ERA91-02
S2LA20F



DTZ-TT11-16B
DTZ10B
DTZ13B
DTZ24B
DTZ33B
DTZ4.7C
DTZ5.1B
MA111
RD12SB2
RD5.6SB
UDZ-TE-17-10B
UDZ-TE-17-12B
UDZ-TE-17-13B
UDZ-TE-17-16B
UDZ-TE-17-24B
UDZ-TE-17-33B
UDZ-TE-17-4.7B
UDZ-TE-17-5.1B
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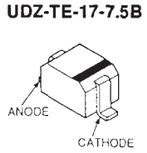
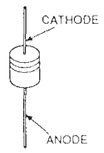
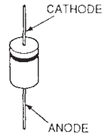
UDZ-TE-17-6.2B
UDZ-TE-17-7.5B



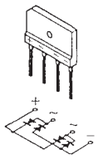
D1NL20-TR
GMA01
RD12ES-B2
RD16ES-B2
RD16ES-B3
RD18ES-B2
RD22ES-B2
RD5.1ES-B2
RD6.2ESB2
1SS119-25TD
1SS119-25



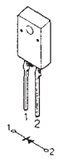
D2S4MF
D2S4MTA1



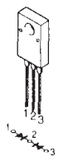
D4SBS4
D4SBS4-F
D4SBL40
D4SB60L



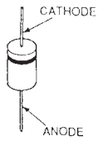
D5L60



D10SC9H



EGP20G
EL1Z
ERA34-10
RGP02-17EL-6433
RGP02-17PKG23
RGP02-20EG23
RGP02-20EL-6394
RGP10GPKG23
RGP15GPKG23



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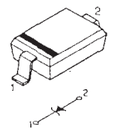
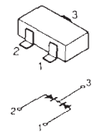


MA151WK
1SS184



MA153
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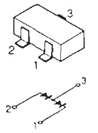
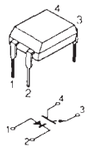
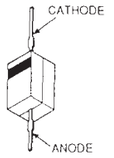


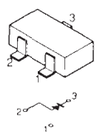
PC123F2
PC123FY2



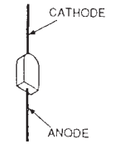
P6KE200AG23



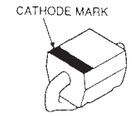
RD6.2M-B1



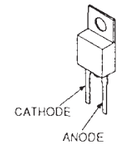
RM11A
RM11C



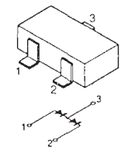
SB560



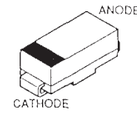
YG911S3R



1PS226-115



1SS376TE-17



SECTION 6
EXPLODED VIEWS

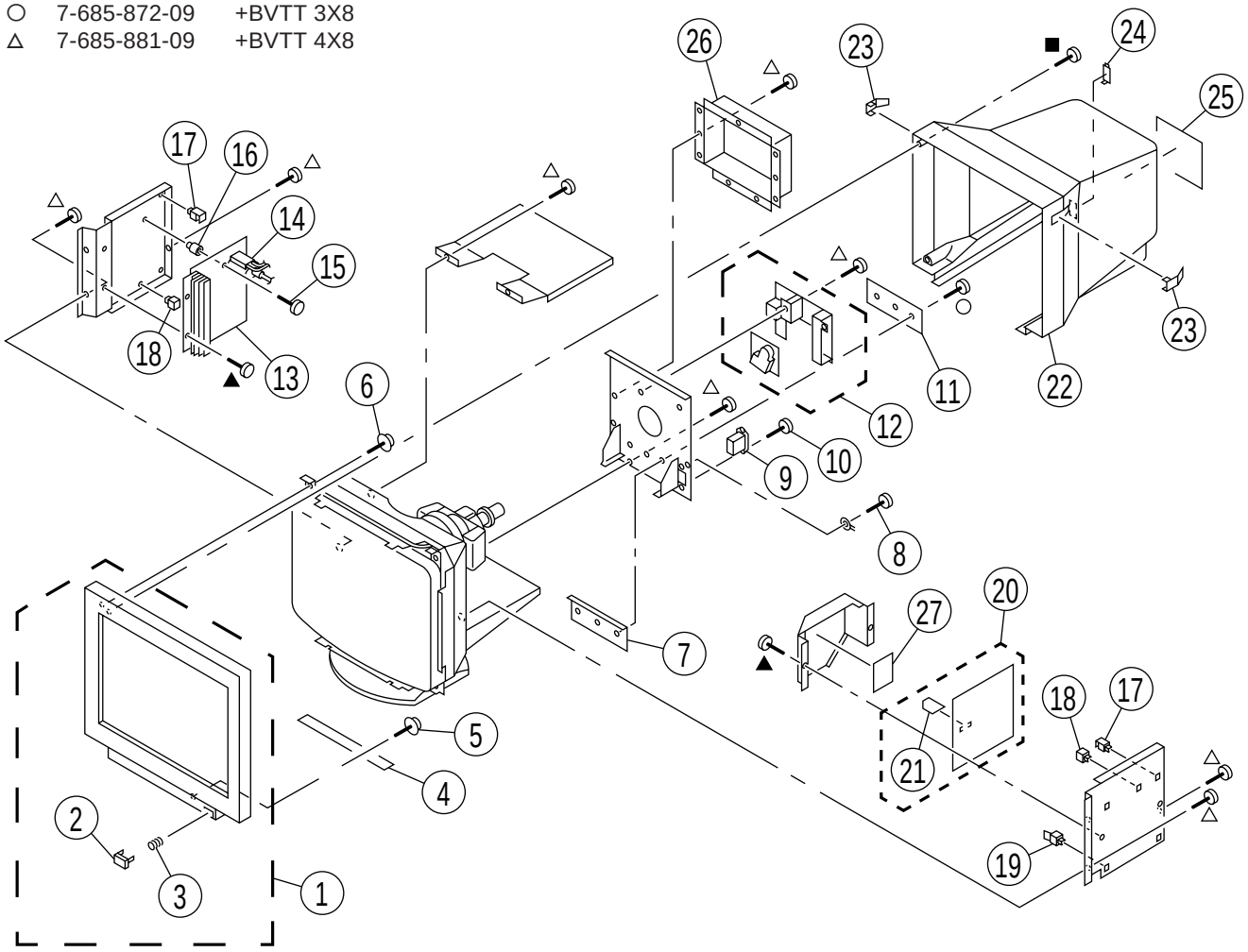
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

6-1. CHASSIS

▲ 7-685-647-79 +BVTP 3X10
■ 7-685-663-71 +BVTP 4X16
○ 7-685-872-09 +BVTT 3X8
△ 7-685-881-09 +BVTT 4X8



REF.NO.		PART NO.	DESCRIPTION	REMARK
1	*	X-4035-085-1	BEZEL ASSY	2, 3
2	*	4-061-970-11	BUTTON, POWER	
3		4-042-593-01	-SPRING, COMPRESSION	
4	*	8-933-283-00	H BOARD, COMPLETE	
5		4-029-432-01	SCREW (3X12), (+) BVWHTP	
6		4-365-808-01	SCREW (5), TAPPING	
7	*	1-694-382-11	TERMINAL BOARD ASSY, I/O	
8		4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)	
9	⚠	1-251-382-11	INLET, AC 3P(WITH NOISE FILTE)	
10		4-052-345-01	SCREW, (3X8) (+K), TAPPING	
11		4-062-901-02	SHEET, CONNECTOR	
12	*	8-933-275-00	A BOARD, COMPLETE	
13	*	8-933-295-00	D BOARD, COMPLETE	
14	⚠	X-4035-170-1	TRANSFORMER ASSY, FLYBACK (NX-4142//J1D4)	

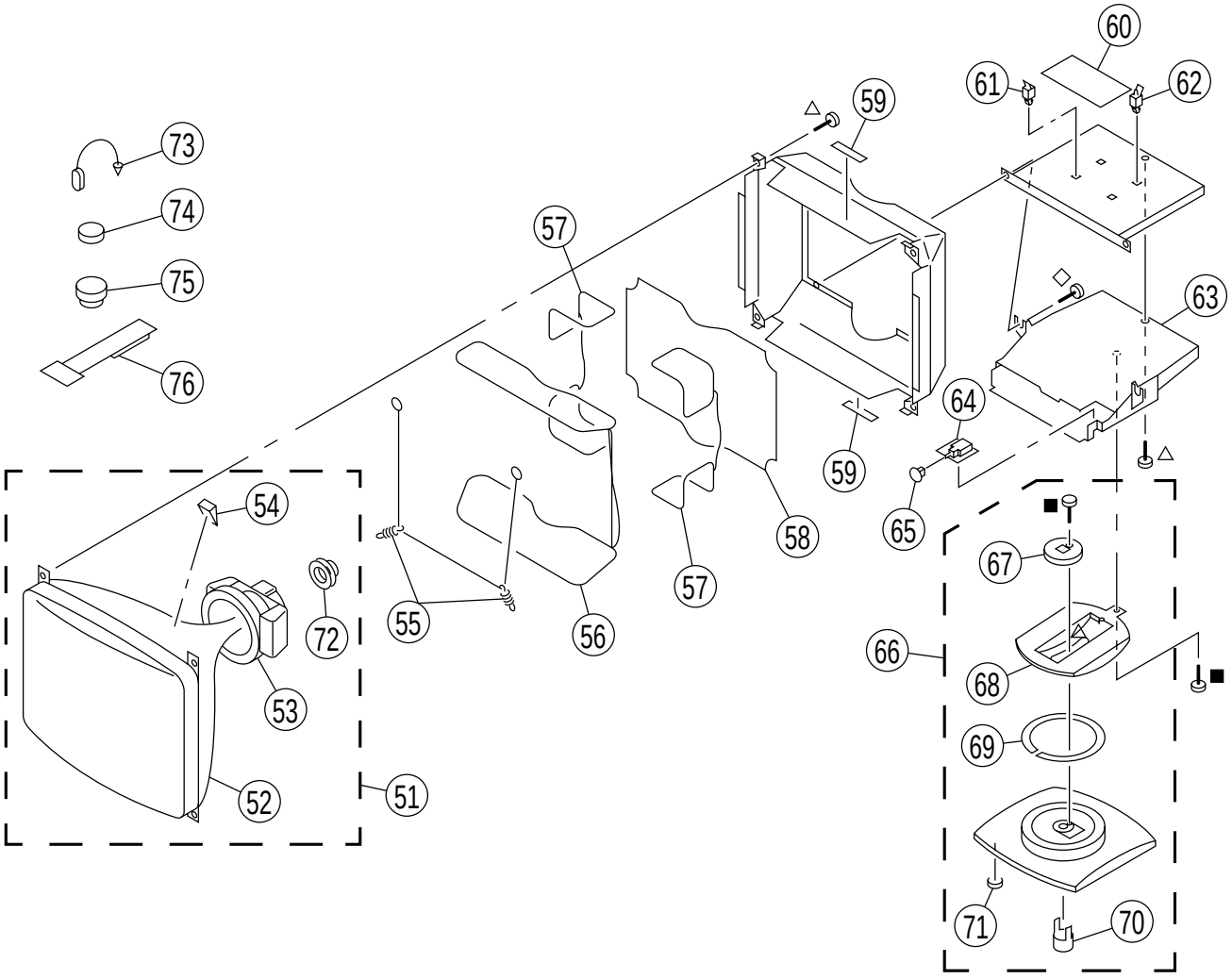
REF.NO.		PART NO.	DESCRIPTION	REMARK
15		4-062-115-01	SCREW +P 3.5X20 TYPE2	
16	*	4-060-359-01	HOLDER, PRINTED CIRCUIT BOARD	
17	*	3-701-903-11	HOLDER, PRINTED CIRCUIT BOARD	
18	*	4-382-848-01	HOLDER, PRINTED CIRCUIT BOARD	
19	*	3-703-141-00	HOLDER, PRINTED CIRCUIT BOARD	
20	*	8-933-277-00	G BOARD, COMPLETE	21
21	*	8-933-269-00	GA BOARD, COMPLETE	
22		4-061-604-21	CABINET	
23		4-061-605-21	COVER, SCREW	
24	*	4-060-358-31	COVER, ECS	
25	*	4-062-088-01	LABEL, INFORMATION	
26	*	4-060-133-02	SHIELD, VIDEO	
27	*	4-061-694-02	SHEET, INSULATE	

6-2. PICTURE TUBE

■ 7-685-663-71 +BVTP 4X16
△ 7-685-881-09 +BVTT 4X8
◇ 7-685-883-01 +BVTT 4X12

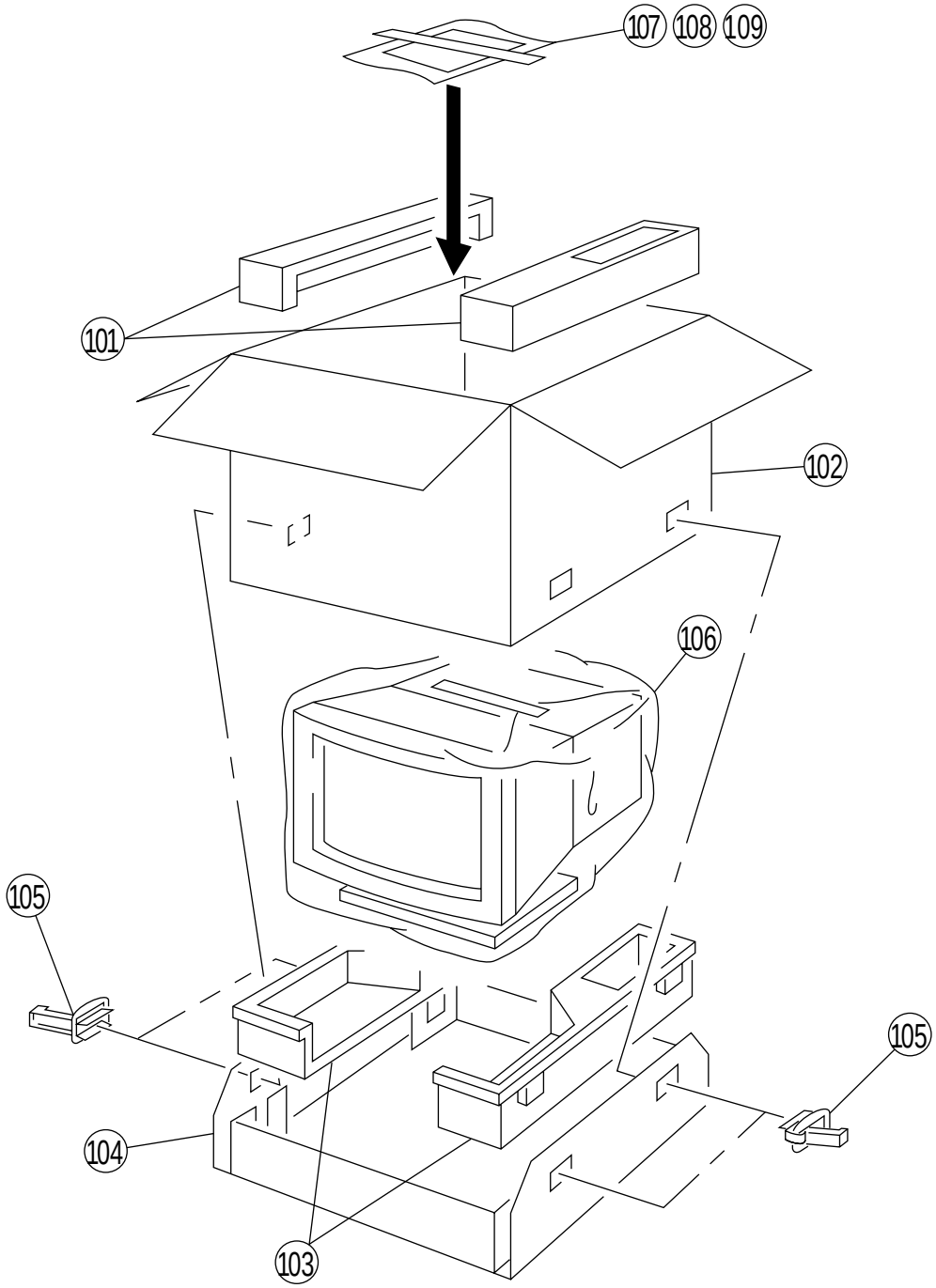
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	⚠8-738-791-81	ITC ASSY (21SRG-R1)	52-54, 72
52	⚠8-738-791-05	PICTURE TUBE (21SRG)	
53	⚠8-451-493-11	DEFLECTION YOKE (Y21SRL-M)	
54	4-050-492-01	SPACER, DY	
55	*4-047-316-01	SPRING, TENSION	
56	⚠1-416-437-11	COIL, DEMAGNETIC	
57	⚠1-416-140-12	COIL, LANDING CORRECTION	
58	⚠1-416-438-11	COIL, LANDING CORRECTION	
59	*4-046-829-01	CUSHION	
60	*8-933-263-00	L BOARD, COMPLETE	
61	*4-321-929-00	HOLDER, PRINTED CIRCUIT BOARD	
62	*3-703-141-00	HOLDER, PRINTED CIRCUIT BOARD	
63	*4-061-603-21	COVER, BOTTOM	
64	*8-933-279-00	J BOARD, COMPLETE	
65	4-031-646-01	SHAFT	
66	*X-4035-119-1	STAND ASSY	67-71
67	4-061-396-01	STOPPER (A)	
68	*4-061-938-21	SLIDER	
69	4-060-339-01	RING, TILT SWIVEL	
70	4-062-381-01	STOPPER (B)	
71	4-047-474-01	FOOT, RUBBER	
72	⚠1-452-932-11	NECK ASSEMBLY, PICTURE TUBE	
73	4-308-870-00	CLIP, LEAD WIRE	
74	4-752-032-00	MAGNET, DISK ; 10mmϕ	
75	1-452-094-00	MAGNET, ROTATABLE DISK ; 15mmϕ	
76	4-059-493-01	PERMALLOY (90), CONV.CORRECT	

6-3. PACKING MATERIALS



REF.NO.	PART NO.	DESCRIPTION	REMARK
101	* 4-061-809-01	CUSHION (UPPER) (ASSY)	
102	* 4-062-129-01	INDIVIDUAL CARTON	
103	* 4-061-810-01	CUSHION (LOWER) (ASSY)	
104	* 4-061-815-11	TRAY	
105	* 4-396-077-01	JOINT	
106	* 4-041-927-31	BAG, POLYETHYLENE	
107	1-777-743-11	CABLE ASSY (15PDSUBX2CONNECTOR)	
108	* 3-861-391-01	MANUAL, INSTRUCTION	
109	* 1-765-719-21	CORD SET, POWER [AEP model]	
109	* 1-765-720-21	CORD SET, POWER [U/C model]	

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  MF: µF
- COILS
  UH: µH

REF.NO.	PART NO.	DESCRIPTION			REMARK
*	8-933-275-00	A BOARD, COMPLETE ********** 4-382-854-11 SCREW (M3X10), P, SW (+) (IC403)			
		<CAPACITOR>			
C101	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C102	1-104-664-11	ELECT 47MF	20%	25V	
C103	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C104	1-104-664-11	ELECT 47MF	20%	25V	
C105	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C106	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C107	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C108	1-107-903-11	ELECT 2.2MF	20%	50V	
C109	1-163-243-11	CERAMIC CHIP 47PF	5%	50V	
C110	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	
C111	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	
C112	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C115	1-104-514-11	FILM 0.22MF	10%	250V	
C120	1-107-949-11	ELECT 2.2MF	20%	200V	
C121	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C122	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C127	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C130	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C201	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C202	1-104-664-11	ELECT 47MF	20%	25V	
C203	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C204	1-104-664-11	ELECT 47MF	20%	25V	
C205	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C206	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C207	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C208	1-107-903-11	ELECT 2.2MF	20%	50V	
C209	1-163-243-11	CERAMIC CHIP 47PF	5%	50V	
C210	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	
C211	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	
C212	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C215	1-104-514-11	FILM 0.22MF	10%	250V	
C217	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C220	1-107-949-11	ELECT 2.2MF	20%	200V	
C221	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C222	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C230	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	

REF.NO.	PART NO.	DESCRIPTION			REMARK
C301	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C302	1-104-664-11	ELECT 47MF	20%	25V	
C303	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C304	1-104-664-11	ELECT 47MF	20%	25V	
C305	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C306	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C307	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C308	1-107-903-11	ELECT 2.2MF	20%	50V	
C309	1-163-239-11	CERAMIC CHIP 33PF	5%	50V	
C310	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	
C311	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	
C312	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C315	1-104-514-11	FILM 0.22MF	10%	250V	
C317	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C319	1-107-888-11	ELECT 47MF	20%	25V	
C320	1-107-949-11	ELECT 2.2MF	20%	200V	
C321	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C322	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C330	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C401	1-126-964-11	ELECT 10MF	20%	50V	
C402	1-104-664-11	ELECT 47MF	20%	25V	
C403	1-104-664-11	ELECT 47MF	20%	25V	
C404	1-126-964-11	ELECT 10MF	20%	50V	
C405	1-163-227-11	CERAMIC CHIP 10PF	0.5PF	50V	
C407	1-126-964-11	ELECT 10MF	20%	50V	
C408	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C409	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	
C410	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C412	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C414	1-163-239-11	CERAMIC CHIP 33PF	5%	50V	
C415	1-128-562-11	ELECT 47MF	20%	100V	
C416	1-104-664-11	ELECT 47MF	20%	25V	
C417	1-115-349-51	CERAMIC 0.01MF		2KV	
C419	1-162-318-11	CERAMIC 0.001MF	10%	500V	
C420	1-126-967-11	ELECT 47MF	20%	50V	
C421	1-126-964-11	ELECT 10MF	20%	50V	
C424	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C429	1-163-227-11	CERAMIC CHIP 10PF	0.5PF	50V	
C431	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C434	1-162-318-11	CERAMIC 0.001MF	10%	500V	
C435	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C436	1-163-243-11	CERAMIC CHIP 47PF	5%	50V	
C438	1-163-243-11	CERAMIC CHIP 47PF	5%	50V	

A

REF.NO.	PART NO.	DESCRIPTION			REMARK
C440	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C442	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C443	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C444	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C445	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C446	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C447	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C448	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C450	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C451	1-126-964-11	ELECT	10MF	20%	50V
C452	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C453	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C454	1-104-665-11	ELECT	100MF	20%	25V
C455	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C457	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C458	1-126-964-11	ELECT	10MF	20%	50V
C459	1-107-930-91	ELECT	22MF	20%	100V
C460	1-162-318-11	CERAMIC	0.001MF	10%	500V
C461	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C463	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C464	1-107-906-11	ELECT	10MF	20%	50V
C465	1-107-906-11	ELECT	10MF	20%	50V
C466	1-126-964-11	ELECT	10MF	20%	50V
C467	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C468	1-126-964-11	ELECT	10MF	20%	50V
C469	1-126-964-11	ELECT	10MF	20%	50V
C471	1-162-318-11	CERAMIC	0.001MF	10%	500V
C478	1-115-350-51	CERAMIC	0.0047MF		2KV
C479	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C481	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C482	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C483	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C484	1-162-318-11	CERAMIC	0.001MF	10%	500V
C485	1-107-652-11	ELECT	10MF	20%	250V
C486	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C487	1-126-964-11	ELECT	10MF	20%	50V
C488	1-104-664-11	ELECT	47MF	20%	25V
C489	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

<CONNECTOR>

CN401*	1-564-521-11	PLUG, CONNECTOR 6P
CN402*	1-564-522-11	PLUG, CONNECTOR 7P
CN403	1-564-523-11	PLUG, CONNECTOR 8P
CN405	1-564-524-11	PLUG, CONNECTOR 9P
CN406*	1-766-179-11	PIN, CONNECTOR (PC BOARD) 2P
CN407*	1-564-522-11	PLUG, CONNECTOR 7P

<DIODE>

D101	8-719-062-51	DIODE 1PS226-115
D102	8-719-062-51	DIODE 1PS226-115
D103	8-719-404-49	DIODE MA111
D104	8-719-052-12	DIODE 1SS376TE-17
D105	8-719-052-12	DIODE 1SS376TE-17
D106	8-719-052-12	DIODE 1SS376TE-17
D107	8-719-052-12	DIODE 1SS376TE-17
D201	8-719-062-51	DIODE 1PS226-115
D202	8-719-062-51	DIODE 1PS226-115
D203	8-719-404-49	DIODE MA111
D204	8-719-052-12	DIODE 1SS376TE-17
D205	8-719-052-12	DIODE 1SS376TE-17
D206	8-719-052-12	DIODE 1SS376TE-17
D207	8-719-052-12	DIODE 1SS376TE-17
D301	8-719-062-51	DIODE 1PS226-115
D302	8-719-062-51	DIODE 1PS226-115
D303	8-719-404-49	DIODE MA111
D304	8-719-052-12	DIODE 1SS376TE-17
D305	8-719-052-12	DIODE 1SS376TE-17
D306	8-719-052-12	DIODE 1SS376TE-17
D307	8-719-052-12	DIODE 1SS376TE-17
D401	8-719-404-49	DIODE MA111
D402	8-719-976-99	ZENER DIODE DTZ5.1B
D403	8-719-404-49	DIODE MA111
D404	8-719-052-12	DIODE 1SS376TE-17
D405	8-719-404-49	DIODE MA111
D406	8-719-404-49	DIODE MA111
D407	8-719-404-49	DIODE MA111
D408	8-719-404-49	DIODE MA111
D409	8-719-404-49	DIODE MA111

<FERRITE BEAD>

FB101	1-216-295-91	SHORT	0
FB201	1-216-295-91	SHORT	0
FB301	1-216-295-91	SHORT	0
FB402	1-412-911-31	INDUCTOR 0UH	
FB403	1-412-911-31	INDUCTOR 0UH	
FB405	1-412-911-31	INDUCTOR 0UH	
FB406	1-412-911-31	INDUCTOR 0UH	

<IC>

IC401	8-759-445-41	IC M52348FP-TP
IC402	8-759-468-63	IC M52722P
IC403	8-749-013-74	IC FA4111
IC404	8-759-492-78	IC LSC4380DW2EL
IC406	8-759-231-58	IC TA7812S
IC408	8-759-239-14	IC TA78L05S
IC409	8-759-502-82	IC LM324M
IC410	8-759-635-27	IC M62352GP-75E

<COIL>

L101	1-412-478-11	INDUCTOR 0.15UH
L102	1-412-478-11	INDUCTOR 0.15UH
L201	1-412-478-11	INDUCTOR 0.15UH
L202	1-412-481-51	INDUCTOR 0.27UH
L301	1-412-478-11	INDUCTOR 0.15UH
L401	1-408-421-00	INDUCTOR 100UH

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The components identified by shading and mark △1 are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<IC LINK>			
PS401	⚠1-533-590-31	LINK, IC (1A/90V AC, 60V DC)			
		<TRANSISTOR>			
Q101	8-729-112-65	TRANSISTOR 2SA1462-Y33			
Q105	8-729-041-66	TRANSISTOR 2SC4015TV2			
Q106	8-729-200-17	TRANSISTOR 2SA1091-O			
Q201	8-729-112-65	TRANSISTOR 2SA1462-Y33			
Q202	8-729-107-31	TRANSISTOR 2SC3545-T43			
Q205	8-729-041-66	TRANSISTOR 2SC4015TV2			
Q206	8-729-200-17	TRANSISTOR 2SA1091-O			
Q301	8-729-112-65	TRANSISTOR 2SA1462-Y33			
Q305	8-729-041-66	TRANSISTOR 2SC4015TV2			
Q306	8-729-200-17	TRANSISTOR 2SA1091-O			
Q401	8-729-216-22	TRANSISTOR 2SA1162-G			
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q403	8-729-216-22	TRANSISTOR 2SA1162-G			
Q404	8-729-901-00	TRANSISTOR DTC124EK			
Q405	8-729-216-22	TRANSISTOR 2SA1162-G			
Q406	8-729-027-31	TRANSISTOR DTA124EKA-T146			
Q407	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q408	8-729-027-31	TRANSISTOR DTA124EKA-T146			
Q409	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q410	8-729-020-07	TRANSISTOR 2SC4686A(LBSONY)			
		<RESISTOR>			
R101	1-215-395-00	METAL	82	1%	1/4W
R102	1-216-025-91	METAL GLAZE	100	5%	1/10W
R103	1-215-395-00	METAL	82	1%	1/4W
R104	1-216-025-91	METAL GLAZE	100	5%	1/10W
R105	1-216-021-00	METAL GLAZE	68	5%	1/10W
R106	1-216-019-00	METAL GLAZE	56	5%	1/10W
R108	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R109	1-216-107-00	METAL GLAZE	270K	5%	1/10W
R110	1-216-295-91	SHORT	0		
R111	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R112	1-216-617-11	METAL CHIP	39	0.50%	1/10W
R113	1-216-009-00	METAL GLAZE	22	5%	1/10W
R114	1-216-035-00	METAL GLAZE	270	5%	1/10W
R115	1-216-035-00	METAL GLAZE	270	5%	1/10W
R116	1-216-017-91	METAL GLAZE	47	5%	1/10W
R117	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R118	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R119	1-216-009-00	METAL GLAZE	22	5%	1/10W
R120	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R121	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R122	1-216-027-00	METAL GLAZE	120	5%	1/10W
R123	1-216-027-00	METAL GLAZE	120	5%	1/10W
R124	1-219-497-11	CARBON	22	5%	1/2W
R125	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R126	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R127	1-216-035-00	METAL GLAZE	270	5%	1/10W
R128	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R129	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R130	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R131	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R132	1-216-035-00	METAL GLAZE	270	5%	1/10W
R133	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R134	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R135	1-216-037-00	METAL GLAZE	330	5%	1/10W
R136	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R137	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R138	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R139	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R140	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W
R141	1-216-025-91	METAL GLAZE	100	5%	1/10W
R142	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R167	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R201	1-215-395-00	METAL	82	1%	1/4W
R202	1-216-025-91	METAL GLAZE	100	5%	1/10W
R203	1-215-395-00	METAL	82	1%	1/4W
R204	1-216-025-91	METAL GLAZE	100	5%	1/10W
R205	1-216-021-00	METAL GLAZE	68	5%	1/10W
R206	1-216-015-00	METAL GLAZE	39	5%	1/10W
R208	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R209	1-216-107-00	METAL GLAZE	270K	5%	1/10W
R210	1-216-295-91	SHORT	0		
R211	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R212	1-216-619-11	METAL CHIP	47	0.50%	1/10W
R213	1-216-009-00	METAL GLAZE	22	5%	1/10W
R214	1-216-035-00	METAL GLAZE	270	5%	1/10W
R215	1-216-035-00	METAL GLAZE	270	5%	1/10W
R216	1-216-017-91	METAL GLAZE	47	5%	1/10W
R217	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R218	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R219	1-216-009-00	METAL GLAZE	22	5%	1/10W
R220	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R221	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R222	1-216-027-00	METAL GLAZE	120	5%	1/10W
R223	1-216-027-00	METAL GLAZE	120	5%	1/10W
R224	1-219-497-11	CARBON	22	5%	1/2W
R225	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R226	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R227	1-216-035-00	METAL GLAZE	270	5%	1/10W
R228	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R229	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R230	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R231	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R232	1-216-035-00	METAL GLAZE	270	5%	1/10W
R233	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R234	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R235	1-216-037-00	METAL GLAZE	330	5%	1/10W
R236	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R237	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R238	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R239	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R240	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W
R241	1-216-025-91	METAL GLAZE	100	5%	1/10W
R242	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R243	1-216-043-91	METAL GLAZE	560	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R267	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R301	1-215-395-00	METAL	82	1%	1/4W
R302	1-216-025-91	METAL GLAZE	100	5%	1/10W
R303	1-215-395-00	METAL	82	1%	1/4W
R304	1-216-025-91	METAL GLAZE	100	5%	1/10W
R305	1-216-021-00	METAL GLAZE	68	5%	1/10W
R306	1-216-015-00	METAL GLAZE	39	5%	1/10W
R308	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R309	1-216-107-00	METAL GLAZE	270K	5%	1/10W
R310	1-216-295-91	SHORT	0		
R311	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R312	1-216-619-11	METAL CHIP	47	0.50%	1/10W
R313	1-216-009-00	METAL GLAZE	22	5%	1/10W
R314	1-216-035-00	METAL GLAZE	270	5%	1/10W
R315	1-216-035-00	METAL GLAZE	270	5%	1/10W
R316	1-216-017-91	METAL GLAZE	47	5%	1/10W
R317	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R318	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R319	1-216-009-00	METAL GLAZE	22	5%	1/10W
R320	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R321	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R322	1-216-027-00	METAL GLAZE	120	5%	1/10W
R323	1-216-027-00	METAL GLAZE	120	5%	1/10W
R324	1-219-497-11	CARBON	22	5%	1/2W
R325	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R326	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R327	1-216-035-00	METAL GLAZE	270	5%	1/10W
R328	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R329	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R330	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R331	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R332	1-216-035-00	METAL GLAZE	270	5%	1/10W
R333	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R334	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R335	1-216-037-00	METAL GLAZE	330	5%	1/10W
R336	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R337	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R338	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R339	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R340	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W
R341	1-216-025-91	METAL GLAZE	100	5%	1/10W
R342	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R367	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R406	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R407	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R408	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R409	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R410	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R411	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R412	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R413	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R415	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R416	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R417	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R418	1-260-127-11	CARBON	220K	5%	1/2W
R419	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R420	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R421	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R422	1-216-025-91	METAL GLAZE	100	5%	1/10W
R423	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R424	1-216-025-91	METAL GLAZE	100	5%	1/10W
R425	1-216-017-91	METAL GLAZE	47	5%	1/10W
R426	1-216-025-91	METAL GLAZE	100	5%	1/10W
R427	1-216-025-91	METAL GLAZE	100	5%	1/10W
R428	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R429	1-216-025-91	METAL GLAZE	100	5%	1/10W
R430	1-216-025-91	METAL GLAZE	100	5%	1/10W
R431	1-216-025-91	METAL GLAZE	100	5%	1/10W
R432	1-216-025-91	METAL GLAZE	100	5%	1/10W
R433	1-216-025-91	METAL GLAZE	100	5%	1/10W
R434	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R435	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R436	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R438	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R439	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R441	1-216-025-91	METAL GLAZE	100	5%	1/10W
R442	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R443	1-216-041-00	METAL GLAZE	470	5%	1/10W
R444	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R446	1-216-025-91	METAL GLAZE	100	5%	1/10W
R447	1-216-041-00	METAL GLAZE	470	5%	1/10W
R448	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R449	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R450	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R451	1-216-025-91	METAL GLAZE	100	5%	1/10W
R452	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R453	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R454	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R456	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R457	1-219-720-11	METAL	10M	5%	1W
R458	1-211-885-21	METAL	2.2M	5%	1W
R459	1-219-720-11	METAL	10M	5%	1W
R461	1-249-441-11	CARBON	100K	5%	1/4W
R462	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R463	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R464	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R466	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R470	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R471	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R473	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R475	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R477	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R478	1-249-381-11	CARBON	1	5%	1/4W F
R479	1-249-381-11	CARBON	1	5%	1/4W F
R480	1-249-381-11	CARBON	1	5%	1/4W F

<SPARK GAP>

SG101	1-517-499-21	GAP, SPARK	
SG201	1-517-499-21	GAP, SPARK	
SG301	1-517-499-21	GAP, SPARK	
SG402	1-519-422-11	GAP, SPARK	
SG403	1-517-499-21	GAP, SPARK	

A GA G

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The components identified by shading and mark △1 are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<SOCKET>			
SK401	⚠1-251-640-11	SOCKET, PICTURE TUBE			
		**********			
	*8-933-269-00	GA BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C7501	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C7502	1-136-169-00	FILM	0.22MF	5%	50V
C7503	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C7504	1-136-165-00	FILM	0.1MF	5%	50V
C7505	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C7506	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
		<CONNECTOR>			
CN7501	*1-774-512-11	CONNECTOR, BPARD TO BOARD 10P			
		<DIODE>			
D7501	8-719-110-57	ZENER DIODE RD22ESB2			
D7502	8-719-911-19	DIODE 1SS119-25			
		<IC>			
IC7501	8-759-482-62	IC MC33262P			
		<TRANSISTOR>			
Q7501	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q7502	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7503	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q7504	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
		<RESISTOR>			
R7501	1-216-025-91	METAL GLAZE	100	5%	1/10W
R7502	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R7503	1-216-041-00	METAL GLAZE	470	5%	1/10W
R7504	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R7505	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R7506	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R7507	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R7508	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R7509	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R7510	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R7511	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R7512	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R7513	1-216-093-00	METAL GLAZE	68K	5%	1/10W
		**********			

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*8-933-277-00	G BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+) (Q610, Q640, D610, D611, D672)			
	*7-322-065-72	RUBBER, RTV (SE-9168) (130G) (R640, C671)			
		<CAPACITOR>			
C601	⚠1-113-900-51	CERAMIC	470PF	10%	250V
C602	⚠1-113-900-51	CERAMIC	470PF	10%	250V
C603	⚠1-107-533-51	FILM	1MF	20%	250V
C604	⚠1-107-533-51	FILM	1MF	20%	250V
C605	⚠1-113-926-91	CERAMIC	0.0047MF		250V
C606	⚠1-113-926-91	CERAMIC	0.0047MF		250V
C607	1-113-900-11	CERAMIC	470PF	10%	250V
C610	1-137-479-11	FILM	1MF	10%	400V
C611	1-117-849-21	ELECT	330MF	20%	450V
C612	1-126-959-11	ELECT	0.47MF	20%	50V
C616	1-107-888-11	ELECT	47MF	20%	25V
C640	1-165-127-11	CERAMIC	470PF	10%	500V
C641	1-165-127-11	CERAMIC	470PF	10%	500V
C642	1-136-171-00	FILM	0.33MF	5%	50V
C643	1-136-171-00	FILM	0.33MF	5%	50V
C644	1-165-127-11	CERAMIC	470PF	10%	500V
C645	1-136-167-00	FILM	0.15MF	5%	50V
C646	1-136-167-00	FILM	0.15MF	5%	50V
C647	1-129-719-00	FILM	0.027MF	5%	630V
C660	1-104-665-11	ELECT	100MF	20%	25V
C661	1-128-526-11	ELECT	100MF	20%	16V
C662	1-137-399-11	FILM	0.1MF	5%	50V
C663	1-126-965-11	ELECT	22MF	20%	50V
C670	1-137-370-11	FILM	0.01MF	5%	50V
C671	1-107-966-51	ELECT	220MF	20%	250V
C672	1-107-959-11	ELECT	3.3MF	20%	250V
C673	1-107-935-11	ELECT	330MF	20%	100V
C674	1-107-928-11	ELECT	4.7MF	20%	100V
C675	1-107-890-11	ELECT	2200MF	20%	25V
C676	1-107-888-11	ELECT	47MF	20%	25V
C677	1-107-890-11	ELECT	2200MF	20%	25V
C678	1-107-888-11	ELECT	47MF	20%	25V
C679	1-126-927-11	ELECT	2200MF	20%	10V
C680	1-126-927-11	ELECT	2200MF	20%	10V
C681	1-107-905-11	ELECT	4.7MF	20%	50V
C682	1-126-963-11	ELECT	4.7MF	20%	50V
C683	1-164-646-11	CERAMIC	2200PF	10%	500V
C684	1-137-370-11	FILM	0.01MF	5%	50V
C685	1-107-909-11	ELECT	47MF	20%	50V
C690	1-107-888-11	ELECT	47MF	20%	25V
C691	1-107-888-11	ELECT	47MF	20%	25V
C692	1-111-016-11	ELECT	0.0012F	20%	10V
C693	1-137-399-11	FILM	0.1MF	5%	50V
C695	1-164-644-11	CERAMIC	330PF	10%	500V
C697	1-136-165-00	FILM	0.1MF	5%	50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN603*	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN604	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN605	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN610*	1-774-511-11	CONNECTOR, BOARD TO BOARD 10P	
CN671*	1-564-514-11	PLUG, CONNECTOR 11P	
CN672*	1-564-512-11	PLUG, CONNECTOR 9P	
CN673*	1-564-508-11	PLUG, CONNECTOR 5P	
		<DIODE>	
D610 ⚠	8-719-510-53	DIODE D4SB60L	
D611	8-719-029-04	DIODE D5L60	
D612	8-719-304-63	DIODE RM11C	
D613	8-719-110-49	ZENER DIODE RD18ESB2	
D614	8-719-977-28	ZENER DIODE DTZ10B	
D617	8-719-404-49	DIODE MA111	
D640	8-719-404-49	DIODE MA111	
D660	8-719-059-23	DIODE P6KE200AG23	
D661	8-719-979-64	DIODE UF4005PKG23	
D662	8-719-058-91	DIODE AG01A-V0	
D663	8-719-110-31	ZENER DIODE RD12ESB2	
D670	8-719-064-49	DIODE D4SBL40	
D671	8-719-510-64	DIODE S2LA20F	
D672	8-719-052-91	DIODE D4SBS4-F	
D673	8-719-022-97	DIODE D2S4MF	
D674	8-719-022-97	DIODE D2S4MF	
D677	8-719-911-19	DIODE 1SS119-25	
D678	8-719-911-19	DIODE 1SS119-25	
D680	8-719-404-49	DIODE MA111	
D681	8-719-404-49	DIODE MA111	
D682	8-719-510-64	DIODE S2LA20F	
D683	8-719-911-19	DIODE 1SS119-25	
D684	8-719-110-57	ZENER DIODE RD22ESB2	
D691	8-719-510-37	DIODE D5LC20U	
D692	8-719-911-19	DIODE 1SS119-25	
D693	8-719-404-49	DIODE MA111	
		<FUSE>	
F601 ⚠	1-576-233-11	FUSE (H.B.C.) (6.3A/250V)	
	1-533-223-11	HOLDER, FUSE ; F601	
		<FERRITE BEAD>	
FB610	1-410-396-41	INDUCTOR 0.45UH	
FB611	1-410-396-41	INDUCTOR 0.45UH	
FB612	1-410-396-41	INDUCTOR 0.45UH	
		<IC>	
IC630	8-749-013-03	IC DM-60	
IC660	8-759-470-64	IC TOP223Y-BB	
IC690	8-749-011-42	IC SI-3050F	
IC691	8-759-140-85	IC UPC1093J	
		<COIL>	
L610	1-416-409-11	COIL, CHOKE	
L611	1-406-664-21	COIL, CHOKE 68UH	
L670	1-412-529-11	INDUCTOR 22UH	
L671	1-412-529-11	INDUCTOR 22UH	
L672	1-412-529-11	INDUCTOR 22UH	
L673	1-412-529-11	INDUCTOR 22UH	
L691	1-412-529-11	INDUCTOR 22UH	
		<PHOTO COUPLER>	
PH660	8-749-010-64	PHOTO COUPLER PC123F2	
PH680	8-749-010-64	PHOTO COUPLER PC123F2	
		<IC LINK>	
PS670 ⚠	1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
PS671 ⚠	1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
PS673 ⚠	1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
PS674 ⚠	1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
		<TRANSISTOR>	
Q610	8-729-041-65	TRANSISTOR 2SK2195F04	
Q615	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q640	8-729-041-12	TRANSISTOR MX0841AB-F	
Q641	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q642	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q660	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q680	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q681	8-729-230-45	TRANSISTOR 2SC2458-YGR	
Q682	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q683	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q690	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q691	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
		<RESISTOR>	
R601 ⚠	1-220-825-91	CARBON 330K 5% 1/2W	
R604	1-260-089-11	CARBON 150 5% 1/2W	
R610	1-216-383-11	METAL OXIDE 0.33 5% 3W	F
R611	1-216-383-11	METAL OXIDE 0.33 5% 3W	F
R612	1-215-477-00	METAL 220K 1% 1/4W	
R613	1-215-477-00	METAL 220K 1% 1/4W	
R614	1-215-473-00	METAL 150K 1% 1/4W	
R615	1-215-473-00	METAL 150K 1% 1/4W	
R616	1-215-473-00	METAL 150K 1% 1/4W	
R617	1-215-481-00	METAL 330K 1% 1/4W	
R618	1-215-477-00	METAL 220K 1% 1/4W	
R619	1-215-485-00	METAL 470K 1% 1/4W	
R620	1-215-485-00	METAL 470K 1% 1/4W	
R621	1-215-481-00	METAL 330K 1% 1/4W	
R622	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R623	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R624	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W	
R625	1-249-389-11	CARBON 4.7 5% 1/4W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R626	1-249-429-11	CARBON	10K	5%	1/4W	
R627	1-215-479-00	METAL	270K	1%	1/4W	
R628	1-215-481-00	METAL	330K	1%	1/4W	
R629	1-215-461-00	METAL	47K	1%	1/4W	
R631	1-247-807-31	CARBON	100	5%	1/4W	
R632	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R633	1-215-481-00	METAL	330K	1%	1/4W	
R635	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R640	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R641	1-218-642-11	METAL OXIDE	100K	5%	1W	F
R642	1-218-642-11	METAL OXIDE	100K	5%	1W	F
R643	1-247-863-91	CARBON	22K	5%	1/4W	
R644	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R645	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R646	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R647	1-249-441-11	CARBON	100K	5%	1/4W	
R648	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R649	1-218-642-11	METAL OXIDE	100K	5%	1W	F
R650	1-218-642-11	METAL OXIDE	100K	5%	1W	F
R651	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R652	1-212-942-00	FUSIBLE	2.2	5%	1/2W	F
R655	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R661	1-249-387-11	CARBON	3.3	5%	1/4W	F
R662	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R663	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R664	1-247-791-91	CARBON	22	5%	1/4W	
R665	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R666	1-215-441-00	METAL	6.8K	1%	1/4W	
R667	1-215-433-00	METAL	3.3K	1%	1/4W	
R668	1-249-401-11	CARBON	47	5%	1/4W	
R669	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R671	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R672	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R673	1-249-413-11	CARBON	470	5%	1/4W	F
R674	1-249-377-11	CARBON	0.47	5%	1/4W	F
R675	1-260-292-11	CARBON	1	5%	1/2W	
R676	1-249-413-11	CARBON	470	5%	1/4W	
R680	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R681	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R682	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R683	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R685	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R686	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R687	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R688	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R689	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R691	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R692	1-260-085-11	CARBON	68	5%	1/2W	
R693	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R694	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R695	1-249-443-11	CARBON	0.47	5%	1/4W	F
R696	1-216-633-11	METAL CHIP	180	0.50%	1/10W	
R697	1-216-649-11	METAL CHIP	820	0.50%	1/10W	
R698	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R699	1-216-081-00	METAL GLAZE	22K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<RELAY>	
RY601	⚠1-515-669-21	RELAY	
RY602	⚠1-755-031-11	RELAY	
		<TRANSFORMER>	
T601	⚠1-429-180-11	TRANSFORMER, LINE FILTER	
T640	1-431-538-11	TRANSFORMER, CONVERTER (PIT)	
T641	1-429-992-11	TRANSFORMER, CONVERTER (PRT)	
T660	1-431-565-11	TRANSFORMER, CONVERTER (SRT)	
		<THERMISTOR>	
TH601	⚠1-809-260-11	THERMISTOR, POWER	
THP601	⚠1-809-827-11	THERMISTOR, POSITIVE	
		<VARISTOR>	
VDR601	⚠1-801-268-51	VARISTOR TNR14V471K660	
VDR602	⚠1-810-622-21	VARISTOR	
VDR640	1-810-974-21	VARISTOR TNR10V431K660	

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* 8-933-295-00 D BOARD, COMPLETE
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4-040-989-01 SPRING (A), TR RETAINER (IC702, R511)
4-040-992-01 SPRING (AA), TR RETAINER (IC502, Q507)
4-040-994-01 SPRING (BB), TR RETAINER (Q508, D519)
4-047-285-01 SHEET, INSULATING (Q909)
4-060-719-02 SHEET, INSULATE (IC502)
4-060-720-01 SHEET, INSULATE (Q508)
4-060-844-01 SHEET, INSULATING (IC702)
4-382-854-01 SCREW (M3X8), P, SW (+) (R937)
4-382-854-11 SCREW (M3X10), P, SW (+) (IC702, Q704, Q706, Q908, Q909, R937)
7-685-647-79 SCREW +BVTP 3X10 TYPE2 IT-3 (IC502, Q507, Q508, D519, R511)

<CAPACITOR>

C001	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C002	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C003	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C004	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C005	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C006	1-126-960-11	ELECT	1MF	20%	50V
C007	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C008	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C009	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C010	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C011	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C012	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C013	1-126-967-11	ELECT	47MF	20%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C014	1-107-914-11	ELECT	1000MF	20%	25V
C015	1-107-914-11	ELECT	1000MF	20%	25V
C016	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C017	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C018	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C019	1-126-967-11	ELECT	47MF	20%	50V
C020	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C021	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C022	1-126-933-11	ELECT	100MF	20%	16V
C023	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C024	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C025	1-126-960-11	ELECT	1MF	20%	50V
C026	1-137-372-11	FILM	0.022MF	5%	50V
C027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C028	1-164-695-11	CERAMIC CHIP	0.0022MF	5%	50V
C029	1-126-960-11	ELECT	1MF	20%	50V
C030	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C031	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C032	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C034	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C035	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
C036	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C037	1-126-934-11	ELECT	220MF	20%	16V
C038	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C039	1-126-964-11	ELECT	10MF	20%	50V
C040	1-126-963-11	ELECT	4.7MF	20%	50V
C041	1-126-960-11	ELECT	1MF	20%	50V
C042	1-126-967-11	ELECT	47MF	20%	50V
C043	1-126-967-11	ELECT	47MF	20%	50V
C044	1-126-967-11	ELECT	47MF	20%	50V
C045	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C046	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C047	1-126-934-11	ELECT	220MF	20%	16V
C048	1-164-695-11	CERAMIC CHIP	0.0022MF	5%	50V
C049	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C050	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C051	1-126-960-11	ELECT	1MF	20%	50V
C052	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C054	1-126-963-11	ELECT	4.7MF	20%	50V
C055	1-126-963-11	ELECT	4.7MF	20%	50V
C056	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C057	1-107-909-11	ELECT	47MF	20%	50V
C058	1-126-964-11	ELECT	10MF	20%	50V
C059	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C060	1-126-964-11	ELECT	10MF	20%	50V
C061	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C062	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C063	1-137-399-11	FILM	0.1MF	5%	50V
C065	1-126-965-11	ELECT	22MF	20%	50V
C066	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C067	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C068	1-126-964-11	ELECT	10MF	20%	50V
C069	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C070	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C072	1-126-960-11	ELECT	1MF	20%	50V
C074	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C075	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C076	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C077	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C078	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C079	1-126-967-11	ELECT	47MF	20%	50V
C080	1-126-967-11	ELECT	47MF	20%	50V
C081	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C082	1-126-964-11	ELECT	10MF	20%	50V
C084	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C085	1-137-399-11	FILM	0.1MF	5%	50V
C086	1-126-964-11	ELECT	10MF	20%	50V
C087	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C088	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C089	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C092	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C093	1-126-964-11	ELECT	10MF	20%	50V
C094	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C095	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C096	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C097	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C098	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C099	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C501	1-107-909-11	ELECT	47MF	20%	50V
C502	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C503	1-136-169-00	FILM	0.22MF	5%	50V
C504	1-137-605-11	FILM	0.01MF	10%	250V
C505	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C506	1-136-169-00	FILM	0.22MF	5%	50V
C507	1-136-173-00	FILM	0.47MF	5%	50V
C508	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C509	1-126-941-11	ELECT	470MF	20%	25V
C510	1-137-368-11	FILM	0.0047MF	5%	50V
C511	1-117-398-11	ELECT	33MF	20%	250V
C512	1-107-889-11	ELECT	220MF	20%	25V
C513	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C514	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C515	1-107-889-11	ELECT	220MF	20%	25V
C516	1-137-399-11	FILM	0.1MF	5%	50V
C517	1-104-574-11	CERAMIC	0.0047MF	10%	2KV
C518	1-117-959-11	FILM	4700PF	3%	1.8KV
C519	1-107-444-11	CERAMIC	100PF	5%	2KV
C520	1-136-553-11	FILM	0.0015MF	5%	630V
C521	1-162-815-11	CERAMIC	47PF	5%	500V
C522	1-107-444-11	CERAMIC	100PF	5%	2KV
C523	1-137-370-11	FILM	0.01MF	5%	50V
C524	1-117-960-81	FILM	0.056MF	5%	250V
C525	1-107-846-11	FILM	0.1MF	5%	250V
C526	1-115-514-11	FILM	0.22MF	5%	250V
C527	1-115-517-11	FILM	0.39MF	5%	250V
C528	1-115-521-11	FILM	0.82MF	5%	250V
C529	1-107-683-11	ELECT	2.2MF	0	250V
C530	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C531	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C532	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C533	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C534	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V

D

REF.NO.	PART NO.	DESCRIPTION			REMARK
C535	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C536	1-128-526-11	ELECT	100MF	20%	25V
C537	1-115-523-21	FILM	1.2MF	5%	250V
C538	1-117-958-11	FILM	0.24MF	5%	400V
C539	1-107-960-11	ELECT	4.7MF	20%	250V
C540	1-106-343-00	MYLAR	0.001MF	10%	200V
C541	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C542	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C544	1-137-368-11	FILM	0.0047MF	5%	50V
C545	1-126-967-11	ELECT	47MF	20%	50V
C547	1-126-967-11	ELECT	47MF	20%	50V
C549	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C550	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C551	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C553	1-126-963-11	ELECT	4.7MF	20%	50V
C554	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C555	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C556	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C557	1-115-185-11	CERAMIC CHIP	0.033MF	10%	50V
C559	1-162-134-11	CERAMIC	470PF	10%	2KV
C561	1-136-173-00	FILM	0.47MF	5%	50V
C562	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C563	1-117-214-11	CERAMIC	0.001MF	10%	2KV
C666	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C667	1-126-967-11	ELECT	47MF	20%	50V
C701	1-126-967-11	ELECT	47MF	20%	50V
C702	1-137-399-11	FILM	0.1MF	5%	50V
C705	1-126-942-61	ELECT	1000MF	20%	25V
C706	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C707	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C709	1-137-399-11	FILM	0.1MF	5%	50V
C710	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C711	1-107-894-11	ELECT	220MF	20%	35V
C712	1-106-228-00	MYLAR	0.22MF	10%	100V
C713	1-126-942-61	ELECT	1000MF	20%	25V
C714	1-126-967-11	ELECT	47MF	20%	50V
C715	1-107-932-11	ELECT	47MF	20%	100V
C717	1-107-930-91	ELECT	22MF	20%	100V
C729	1-162-134-11	CERAMIC	470PF	10%	2KV
C735	1-137-399-11	FILM	0.1MF	5%	50V
C746	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C747	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C750	1-126-964-11	ELECT	10MF	20%	50V
C751	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C901	1-107-889-11	ELECT	220MF	20%	25V
C902	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C903	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C904	1-137-605-11	FILM	0.01MF	10%	250V
C905	1-104-653-11	ELECT	220MF	20%	16V
C906	1-106-220-00	MYLAR	0.1MF	10%	100V
C907	1-119-748-11	ELECT	33MF	20%	400V
C908	1-136-169-00	FILM	0.22MF	5%	50V
C909	1-106-355-12	MYLAR	0.0033MF	10%	200V
C910	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C911	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C912	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C913	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C914	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C915	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C916	1-136-064-00	FILM	2200PF	3%	1.2KV
C917	1-107-889-11	ELECT	220MF	20%	25V
C919	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C920	1-102-074-00	CERAMIC	0.001MF	10%	50V
C921	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C922	1-117-665-11	FILM	0.33MF	5%	200V
C923	1-106-359-00	MYLAR	0.0047MF	10%	100V
C924	1-106-220-00	MYLAR	0.1MF	10%	100V
C925	1-137-372-11	FILM	0.022MF	5%	50V
C926	1-106-228-00	MYLAR	0.22MF	10%	100V
C927	1-107-903-11	ELECT	2.2MF	20%	50V
C928	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C929	1-128-526-11	ELECT	100MF	20%	25V
C930	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C931	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C945	1-107-909-11	ELECT	47MF	20%	50V
C1003	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1004	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1005	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1006	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1007	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1008	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1009	1-126-960-11	ELECT	1MF	20%	50V
C1501	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1502	1-117-722-11	ELECT	2200MF	20%	10V
C1503	1-163-001-11	CERAMIC CHIP	220PF	10%	50V

<CONNECTOR>

CN501*	1-564-512-11	PLUG, CONNECTOR 9P
CN502*	1-564-514-11	PLUG, CONNECTOR 11P
CN503*	1-564-510-11	PLUG, CONNECTOR 7P
CN504*	1-564-508-11	PLUG, CONNECTOR 5P
CN505*	1-508-879-11	BASE POST
CN506*	1-564-511-11	PLUG, CONNECTOR 8P
CN507	1-764-101-11	PIN, CONNECTOR (PC BOARD) 2P
CN508*	1-778-955-11	PIN, CONNECTOR (PC BOARD) 10P
CN509	1-564-505-11	PLUG, CONNECTOR 2P
CN511*	1-564-514-11	PLUG, CONNECTOR 11P
CN512*	1-564-512-11	PLUG, CONNECTOR 9P
CN520*	1-564-509-11	PLUG, CONNECTOR 6P
CN901*	1-564-520-11	PLUG, CONNECTOR 5P

<DIODE>

D004	8-719-800-76	DIODE 1SS226
D007	8-719-976-99	ZENER DIODE DTZ5.1B
D008	8-719-976-99	ZENER DIODE DTZ5.1B
D009	8-719-976-99	ZENER DIODE DTZ5.1B
D010	8-719-976-99	ZENER DIODE DTZ5.1B
D012	8-719-800-76	DIODE 1SS226
D013	8-719-800-76	DIODE 1SS226
D014	8-719-800-76	DIODE 1SS226
D015	8-719-800-76	DIODE 1SS226

D

REF.NO.	PART NO.	DESCRIPTION	REMARK
D016	8-719-800-76	DIODE 1SS226	
D019	8-719-800-76	DIODE 1SS226	
D020	8-719-800-76	DIODE 1SS226	
D025	8-719-056-84	ZENER DIODE UDZ-TE-17-7.5B	
D026	8-719-800-76	DIODE 1SS226	
D027	8-719-800-76	DIODE 1SS226	
D028	8-719-800-76	DIODE 1SS226	
D029	8-719-800-76	DIODE 1SS226	
D032	8-719-976-99	ZENER DIODE DTZ5.1B	
D033	8-719-976-99	ZENER DIODE DTZ5.1B	
D034	8-719-801-78	DIODE 1SS184	
D035	8-719-801-78	DIODE 1SS184	
D050	8-719-404-49	DIODE MA111	
D501	8-719-977-40	ZENER DIODE DTZ13B	
D502	8-719-063-89	DIODE YG911S3R	
D503	8-719-404-49	DIODE MA111	
D504	8-719-984-73	DIODE SB560	
D505	8-719-018-82	DIODE RGP02-20EL-6394	
D506	8-719-911-19	DIODE 1SS119-25	
D507	8-719-911-19	DIODE 1SS119-25	
D508	8-719-109-85	ZENER DIODE RD5.1ESB2	
D509	8-719-911-19	DIODE 1SS119-25	
D510	8-719-951-30	DIODE ERA91-02	
D511	8-719-911-19	DIODE 1SS119-25	
D512	8-719-018-82	DIODE RGP02-20EL-6394	
D513	8-719-404-49	DIODE MA111	
D514	8-719-109-93	ZENER DIODE RD6.2ESB2	
D515	8-719-404-49	DIODE MA111	
D516	8-719-105-99	ZENER DIODE RD6.2M-B1	
D518	8-719-404-49	DIODE MA111	
D519	8-719-066-36	DIODE FMQ-G5GS	
D520	8-719-031-34	DIODE RGP02-20EG23	
D521	8-719-404-49	DIODE MA111	
D660	8-719-977-69	ZENER DIODE DTZ24B	
D701	8-719-158-15	ZENER DIODE RD5.6SB	
D704	8-719-404-49	DIODE MA111	
D704	8-719-404-49	DIODE MA111	
D705	8-719-404-49	DIODE MA111	
D706	8-719-976-99	ZENER DIODE DTZ5.1B	
D709	8-719-979-85	DIODE EGP20G	
D713	8-719-911-19	DIODE 1SS119-25	
D714	8-719-911-19	DIODE 1SS119-25	
D715	8-719-911-19	DIODE 1SS119-25	
D718	8-719-976-99	ZENER DIODE DTZ5.1B	
D720	8-719-028-72	DIODE RGP02-17EL-6433	
D721	8-719-028-72	DIODE RGP02-17EL-6433	
D901	8-719-404-49	DIODE MA111	
D902	8-719-404-49	DIODE MA111	
D903	8-719-911-19	DIODE 1SS119-25	
D904	8-719-404-49	DIODE MA111	
D905	8-719-404-49	DIODE MA111	
D906	8-719-404-49	DIODE MA111	
D907	8-719-158-49	ZENER DIODE RD12SB2	
D908	8-719-158-49	ZENER DIODE RD12SB2	
D909	8-719-977-40	ZENER DIODE DTZ13B	
D910	8-719-063-89	DIODE YG911S3R	
D911	8-719-978-69	ZENER DIODE DTZ-TT11-16B	
D913	8-719-158-49	ZENER DIODE RD12SB2	
D915	8-719-109-85	ZENER DIODE RD5.1ESB2	
D916	8-719-939-79	DIODE GMA01-BT	
D917	8-719-110-46	ZENER DIODE RD16ESB3	
D919	8-719-911-19	DIODE 1SS119-25	
D921	8-719-404-49	DIODE MA111	
D922	8-719-404-49	DIODE MA111	
D923	8-719-404-49	DIODE MA111	
D924	8-719-976-99	ZENER DIODE DTZ5.1B	
D935	8-719-977-81	ZENER DIODE DTZ33B	
D1501	8-719-976-99	ZENER DIODE DTZ5.1B	
D1502	8-719-404-49	DIODE MA111	
D1503	8-719-404-49	DIODE MA111	
		<FERRITE BEAD>	
FB501	1-410-397-21	INDUCTOR 1.1UH	
FB502	1-410-397-21	INDUCTOR 1.1UH	
FB901	1-410-397-21	INDUCTOR 1.1UH	
		<IC>	
IC001	8-759-499-97	IC MB90P553PF-G-BND-N11	
IC001	8-759-499-98	IC MB90553PF-G-112-BND	
IC002	8-759-442-20	IC 24LC21A/SN	
IC003	8-759-168-20	IC TA78L09S	
IC004	8-759-454-79	IC 24LC16BT/SN	
IC005	8-759-162-80	IC MM1170BFB	
IC006	8-759-231-53	IC TA7805S	
IC007	8-752-078-46	IC CXA2043Q	
IC008	8-759-701-59	IC NJM78M09FA	
IC009	8-759-082-57	IC TC7W04FU	
IC010	8-752-083-83	IC CXA2044M-T6	
IC011	8-759-708-05	IC NJM78L05A	
IC012	8-759-442-20	IC 24LC21A/SN	
IC013	8-759-233-66	IC TC74HCT04AF	
IC502	8-759-803-42	IC LA6500-FA	
IC505	8-759-100-96	IC UPC4558G2	
IC701	8-759-822-38	IC LA6510	
IC702	8-759-444-82	IC LA7841L	
IC703	8-759-100-96	IC UPC4558G2	
IC901	8-759-467-70	IC BA9756FS-E2	
		<CHIP CONDUCTOR>	
JR001	1-216-295-91	SHORT	0
JR002	1-216-295-91	SHORT	0
JR003	1-216-295-91	SHORT	0
JR004	1-216-295-91	SHORT	0
		<COIL>	
L001	1-406-665-11	COIL, CHOKE 100UH	
L002	1-406-665-11	COIL, CHOKE 100UH	
L003	1-412-537-31	INDUCTOR 100UH	
L004	1-412-537-31	INDUCTOR 100UH	
L006	1-410-482-31	INDUCTOR 100UH	

D

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
L007	1-412-537-31	INDUCTOR 100UH	
L008	1-412-537-31	INDUCTOR 100UH	
L501	1-412-537-31	INDUCTOR 100UH	
L502	1-406-671-11	COIL, CHOKE 1.0MMH	
L503	1-416-455-11	COIL, HORIZONTAL LINEARITY	
L504	1-416-456-11	COIL, HORIZONTAL LINEARITY	
L505	1-406-675-11	COIL, CHOKE 4.7MMH	
L507	1-406-675-11	COIL, CHOKE 4.7MMH	
L701	1-412-537-31	INDUCTOR 100UH	
L702	1-412-522-31	INDUCTOR 5.6UH	
L901	1-412-537-31	INDUCTOR 100UH	
L902	1-406-660-41	COIL, CHOKE 15UH	
L903	1-412-537-31	INDUCTOR 100UH	
		<IC LINK>	
PS501	⚠ 1-533-592-31	LINK, IC (1.6A/90V AC, 60V DC)	
PS502	⚠ 1-532-984-91	LINK, IC (2A/90V)	
PS503	⚠ 1-532-984-91	LINK, IC (2A/90V)	
PS504	⚠ 1-532-984-91	LINK, IC (2A/90V)	
PS701	⚠ 1-533-590-31	LINK, IC (1A/90V AC, 60V DC)	
PS901	⚠ 1-533-592-31	LINK, IC (1.6A/90V AC, 60V DC)	
		<TRANSISTOR>	
Q001	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q003	8-729-216-22	TRANSISTOR 2SA1162-G	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q005	8-729-216-22	TRANSISTOR 2SA1162-G	
Q006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q503	8-729-901-97	TRANSISTOR 2SA1036K-Q	
Q504	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q505	8-729-901-97	TRANSISTOR 2SA1036K-Q	
Q506	8-729-820-73	TRANSISTOR 2SC3746	
Q507	8-729-035-54	TRANSISTOR 2SJ449	
Q508	8-729-031-87	TRANSISTOR 2SC5047-CA	
Q509	8-729-033-25	TRANSISTOR DTC114GKA	
Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q511	8-729-140-50	TRANSISTOR 2SC3209LK	
Q512	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q513	8-729-901-00	TRANSISTOR DTC124EK	
Q517	8-729-216-22	TRANSISTOR 2SA1162-G	
Q522	8-729-042-43	TRANSISTOR 2SK2098-01MR	
Q523	8-729-042-43	TRANSISTOR 2SK2098-01MR	
Q524	8-729-042-43	TRANSISTOR 2SK2098-01MR	
Q525	8-729-042-43	TRANSISTOR 2SK2098-01MR	
Q526	8-729-042-43	TRANSISTOR 2SK2098-01MR	
Q527	8-729-042-43	TRANSISTOR 2SK2098-01MR	
Q528	8-729-042-43	TRANSISTOR 2SK2098-01MR	
Q660	8-729-033-26	TRANSISTOR DTA114GKAT146	
Q661	8-729-033-25	TRANSISTOR DTC114GKA	
Q701	8-729-800-32	TRANSISTOR 2SC2362K-G	
Q703	8-729-178-43	TRANSISTOR 2SC2784-E	
Q704	8-729-207-82	TRANSISTOR 2SC3421-Y	
Q705	8-729-204-91	TRANSISTOR 2SA1049-GR	
Q706	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q707	8-729-216-22	TRANSISTOR 2SA1162-G	
Q708	8-729-020-07	TRANSISTOR 2SC4686A(LBSONY)	
Q901	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q902	8-729-216-22	TRANSISTOR 2SA1162-G	
Q904	8-729-901-87	TRANSISTOR 2SC2411K-CQ	
Q905	8-729-901-97	TRANSISTOR 2SA1036K-Q	
Q908	8-729-015-28	TRANSISTOR IRFI9630GS	
Q909	8-729-033-91	TRANSISTOR 2SK1120LBSONY2	
		<RESISTOR>	
R001	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R002	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R003	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R004	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R005	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R006	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R007	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R008	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R009	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R010	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R011	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R012	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R013	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R016	1-216-687-11	METAL CHIP 33K 0.50% 1/10W	
R017	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R018	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R019	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R020	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R023	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R024	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R025	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R026	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R027	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R028	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R029	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R030	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R031	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R032	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R033	1-216-017-91	METAL GLAZE 47 5% 1/10W	
R034	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R035	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R036	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R037	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R038	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R039	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R040	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R041	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R042	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R043	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R044	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
R045	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R046	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R047	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R048	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R049	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R050	1-216-025-91	METAL GLAZE	100	5%	1/10W
R051	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R052	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R053	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R054	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R055	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R056	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R057	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R058	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R059	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R060	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R061	1-249-425-11	CARBON	4.7K	5%	1/4W
R063	1-216-025-91	METAL GLAZE	100	5%	1/10W
R064	1-216-025-91	METAL GLAZE	100	5%	1/10W
R065	1-216-025-91	METAL GLAZE	100	5%	1/10W
R066	1-216-025-91	METAL GLAZE	100	5%	1/10W
R067	1-216-025-91	METAL GLAZE	100	5%	1/10W
R068	1-216-025-91	METAL GLAZE	100	5%	1/10W
R069	1-216-017-91	METAL GLAZE	47	5%	1/10W
R070	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R071	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R072	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R073	1-216-295-91	SHORT	0		
R074	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R075	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R076	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R077	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R078	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R079	1-216-017-91	METAL GLAZE	47	5%	1/10W
R080	1-216-017-91	METAL GLAZE	47	5%	1/10W
R081	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R082	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R083	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R084	1-216-025-91	METAL GLAZE	100	5%	1/10W
R085	1-216-025-91	METAL GLAZE	100	5%	1/10W
R088	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R089	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R090	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R092	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R094	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R096	1-216-295-91	SHORT	0		
R097	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R101	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R501	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R502	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R503	1-216-041-00	METAL GLAZE	470	5%	1/10W
R504	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R505	1-216-041-00	METAL GLAZE	470	5%	1/10W
R506	1-249-397-11	CARBON	22	5%	1/4W F
R507	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R508	1-216-025-91	METAL GLAZE	100	5%	1/10W
R509	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R510	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R511	1-219-726-11	METAL	2.2	5%	10W
R512	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R513	1-215-860-11	METAL OXIDE	33	5%	1W F
R514	1-211-796-11	FUSIBLE	1	5%	1/2W F
R515	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R516	1-247-815-91	CARBON	220	5%	1/4W
R517	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R518	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R519	1-216-393-00	METAL OXIDE	2.2	5%	3W F
R520	1-216-393-00	METAL OXIDE	2.2	5%	3W F
R521	1-249-413-11	CARBON	470	5%	1/4W F
R522	1-216-423-11	METAL OXIDE	27	5%	1W F
R523	1-249-425-11	CARBON	4.7K	5%	1/4W F
R524	1-215-869-11	METAL OXIDE	1K	5%	1W F
R525	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R526	1-214-840-00	METAL	100	1%	1/2W
R527	1-214-840-00	METAL	100	1%	1/2W
R528	1-214-840-00	METAL	100	1%	1/2W
R529	1-260-313-51	CARBON	56	5%	1/2W
R530	1-249-437-11	CARBON	47K	5%	1/4W
R531	1-249-437-11	CARBON	47K	5%	1/4W
R532	1-249-437-11	CARBON	47K	5%	1/4W
R533	1-249-437-11	CARBON	47K	5%	1/4W
R534	1-249-437-11	CARBON	47K	5%	1/4W
R535	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R536	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R537	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R538	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R539	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R540	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R541	1-260-314-11	CARBON	68	5%	1/2W
R542	1-215-863-11	METAL OXIDE	100	5%	1W F
R543	1-216-640-11	METAL CHIP	360	0.50%	1/10W
R544	1-260-085-11	CARBON	68	5%	1/2W
R545	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R546	1-260-288-11	CARBON	0.47	5%	1/2W
R547	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R548	1-215-443-00	METAL	8.2K	1%	1/4W
R549	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R550	1-260-288-11	CARBON	0.47	5%	1/2W
R551	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R552	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R553	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R554	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R555	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R556	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W
R557	1-218-760-11	METAL CHIP	220K	0.50%	1/10W
R558	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R561	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R562	1-249-401-11	CARBON	47	5%	1/4W F
R563	1-216-662-11	METAL CHIP	3K	0.50%	1/10W
R564	1-216-697-91	METAL CHIP	82K	0.50%	1/10W
R565	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R566	1-260-311-11	CARBON	39	5%	1/2W
R571	1-216-381-11	METAL OXIDE	0.22	5%	3W F
R572	1-216-097-91	METAL GLAZE	100K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R573	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R574	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R575	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R576	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R577	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R578	1-216-025-91	METAL GLAZE	100	5%	1/10W
R579	1-216-672-11	METAL CHIP	7.5K	0.50%	1/10W
R580	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R581	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R582	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R583	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R584	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R585	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R586	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R587	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R588	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R589	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R590	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R591	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R594	1-249-437-11	CARBON	47K	5%	1/4W
R595	1-249-437-11	CARBON	47K	5%	1/4W
R596	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R663	1-215-482-00	METAL	360K	1%	1/4W
R664	1-215-459-00	METAL	39K	1%	1/4W
R665	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R667	1-216-041-00	METAL GLAZE	470	5%	1/10W
R669	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R701	1-249-383-11	CARBON	1.5	5%	1/4W F
R702	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R703	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R704	1-249-383-11	CARBON	1.5	5%	1/4W F
R705	1-249-385-11	CARBON	2.2	5%	1/4W
R706	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R707	1-249-421-11	CARBON	2.2K	5%	1/4W
R708	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R709	1-216-473-11	METAL OXIDE	56	5%	3W F
R710	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R715	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R719	1-249-383-11	CARBON	1.5	5%	1/4W F
R720	1-260-292-11	CARBON	1	5%	1/2W
R721	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R722	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R723	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R724	1-214-798-21	METAL	1.8	1%	1/2W
R725	1-214-798-21	METAL	1.8	1%	1/2W
R726	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R727	1-260-292-11	CARBON	1	5%	1/2W
R728	1-249-381-11	CARBON	1	5%	1/4W F
R729	1-215-865-11	METAL OXIDE	220	5%	1W F
R730	1-219-746-11	CARBON	1K	5%	1/2W
R731	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R732	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R733	1-219-746-11	CARBON	1K	5%	1/2W
R734	1-215-881-11	METAL OXIDE	15	5%	2W F
R737	1-249-377-11	CARBON	0.47	5%	1/4W F
R738	1-249-377-11	CARBON	0.47	5%	1/4W F
R739	1-249-413-11	CARBON	470	5%	1/4W F
R741	1-249-430-11	CARBON	12K	5%	1/4W
R742	1-249-419-11	CARBON	1.5K	5%	1/4W
R743	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R748	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R749	1-216-025-91	METAL GLAZE	100	5%	1/10W
R750	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R751	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R752	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R753	1-219-720-11	METAL	10M	5%	1W
R754	1-219-754-91	REGISTER	0		
R755	1-219-754-91	REGISTER	0		
R756	1-220-824-91	CARBON	270K	5%	1/2W
R759	1-218-754-11	METAL CHIP	120K	0.50%	1/10W
R776	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R777	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R778	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R779	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R784	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R900	1-216-399-00	METAL OXIDE	6.8	5%	3W F
R901	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R902	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R903	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R904	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R905	1-216-025-91	METAL GLAZE	100	5%	1/10W
R906	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R907	1-216-025-91	METAL GLAZE	100	5%	1/10W
R908	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R909	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R910	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R911	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R912	1-218-772-11	METAL CHIP	680K	0.50%	1/10W
R913	1-219-748-11	CARBON	4.7K	5%	1/2W
R914	1-219-510-11	CARBON	470K	5%	1/2W
R915	1-249-437-11	CARBON	47K	5%	1/4W
R916	1-249-429-11	CARBON	10K	5%	1/4W
R917	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R918	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R919	1-216-025-91	METAL GLAZE	100	5%	1/10W
R920	1-249-401-11	CARBON	47	5%	1/4W F
R921	1-216-668-11	METAL CHIP	5.1K	0.50%	1/10W
R922	1-216-041-00	METAL GLAZE	470	5%	1/10W
R923	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R924	1-249-397-11	CARBON	22	5%	1/4W F
R925	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R926	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R927	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R928	1-215-437-00	METAL	4.7K	1%	1/4W
R929	1-216-033-00	METAL GLAZE	220	5%	1/10W
R930	1-216-033-00	METAL GLAZE	220	5%	1/10W
R933	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R934	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R937	1-219-727-11	METAL	68	5%	10W
R940	1-249-393-11	CARBON	10	5%	1/4W F
R980	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R981	1-216-025-91	METAL GLAZE	100	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R1001	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1003	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1004	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1005	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1006	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1007	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1011	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1012	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1013	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1014	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1016	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1017	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1020	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1021	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1022	1-216-295-91	SHORT	0			
R1023	1-216-295-91	SHORT	0			
R1024	1-216-295-91	SHORT	0			
R1025	1-249-389-11	CARBON	4.7	5%	1/4W	F
R1026	1-249-389-11	CARBON	4.7	5%	1/4W	F
R1027	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1028	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1501	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1502	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1503	1-216-125-00	METAL GLAZE	1.5M	5%	1/10W	
R1504	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R1513	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1514	1-216-049-91	METAL GLAZE	1K	5%	1/10W	

<RELAY>

RY501	1-755-137-11	RELAY

<SPARK GAP>

SG701	1-519-422-11	GAP, SPARK
SG702	1-519-422-11	GAP, SPARK
SG901	1-517-499-21	GAP, SPARK

<TRANSFORMER>

T501	1-429-303-21	TRANSFORMER, FERRITE (HDT)
T502	1-416-401-11	COIL, CHOKE 5MMH
T503	1-431-413-11	TRANSFORMER, FERRITE (HST)
T504	1-416-257-11	COIL, CHOKE (HCC) 2.0MH
T701	1-431-414-11	TRANSFORMER, FERRITE (DFT)
T901	1-416-402-11	COIL, CHOKE 500UH
T902 ⚠	X-4035-170-1	TRANSFORMER ASSY, FLYBACK (NX-4142//J1D4)

<THERMISTOR>

TH501	1-807-796-11	THERMISTOR

<CRYSTAL>

X001	1-567-781-61	VIBRATOR, CRYSTAL

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*	8-933-283-00	H BOARD, COMPLETE

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<CAPACITOR>

C805	1-124-589-11	ELECT	47MF	20%	16V
C811	1-124-589-11	ELECT	47MF	20%	16V

<CONNECTOR>

CN801*	1-564-526-11	PLUG, CONNECTOR 11P

<DIODE>

D820	8-719-064-11	DIODE SPR-325MVW

<TRANSISTOR>

Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q802	8-729-119-78	TRANSISTOR 2SC2785-HFE

<RESISTOR>

R801	1-215-433-00	METAL	3.3K	1%	1/4W
R802	1-215-409-00	METAL	330	1%	1/4W
R803	1-215-409-00	METAL	330	1%	1/4W
R804	1-215-413-00	METAL	470	1%	1/4W
R805	1-215-413-00	METAL	470	1%	1/4W
R806	1-215-417-00	METAL	680	1%	1/4W
R807	1-215-421-00	METAL	1K	1%	1/4W
R808	1-215-421-00	METAL	1K	1%	1/4W
R809	1-215-429-00	METAL	2.2K	1%	1/4W
R810	1-215-433-00	METAL	3.3K	1%	1/4W
R814	1-249-429-11	CARBON	10K	5%	1/4W
R815	1-249-429-11	CARBON	10K	5%	1/4W
R818	1-215-445-00	METAL	10K	1%	1/4W
R819	1-249-441-11	CARBON	100K	5%	1/4W
R826	1-249-413-11	CARBON	470	5%	1/4W
R827	1-249-408-11	CARBON	180	5%	1/4W

<SWITCH>

S802	1-692-431-21	SWITCH, TACTILE (CONT +)
S803	1-692-431-21	SWITCH, TACTILE (CONT –)
S804	1-692-431-21	SWITCH, TACTILE (NENU)
S805	1-692-431-21	SWITCH, TACTILE (BRT +)
S806	1-692-431-21	SWITCH, TACTILE (BRT –)
S818	1-692-431-21	SWITCH, TACTILE (ASC)

H U3 J L

Les composants identifiés per un tramé et une marque ⚠1 sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠1 are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
S820	1-692-431-21	SWITCH, TACTILE (RESET)	
		<THERMISTOR>	
TH801	1-807-796-11	THERMISTOR	
**********			
		U3 BOARD, COMPLETE	
		**********	
		<CONNECTOR>	
CN3003	* 1-564-521-11	PLUG, CONNECTOR 6P	
CN3005	* 1-564-522-11	PLUG, CONNECTOR 7P	
**********			
	* 8-933-279-00	J BOARD, COMPLETE	
		**********	
CN891	*1-691-961-11	PIN, CONNECTOR (PC BOARD) 2P	
		<SWITCH>	
S891	⚠ 1-571-433-31	SWITCH, PUSH (AC POWER)	
**********			
	* 8-933-263-00	L BOARD, COMPLETE	
		**********	
		<CAPACITOR>	
C5002	1-126-965-11	ELECT 22MF 20% 50V	
C5003	1-126-933-11	ELECT 100MF 20% 16V	
C5004	1-104-664-11	ELECT 47MF 20% 25V	
C5005	1-104-664-11	ELECT 47MF 20% 25V	
C5007	1-126-965-11	ELECT 22MF 20% 50V	
C5008	1-104-664-11	ELECT 47MF 20% 25V	
C5009	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5101	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5103	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5104	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5105	1-104-664-11	ELECT 47MF 20% 25V	
C5106	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5107	1-137-399-11	FILM 0.1MF 5% 50V	
C5108	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5109	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5110	1-104-664-11	ELECT 47MF 20% 25V	
C5111	1-137-399-11	FILM 0.1MF 5% 50V	
C5201	1-104-664-11	ELECT 47MF 20% 25V	
C5202	1-104-664-11	ELECT 47MF 20% 25V	
C5203	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5204	1-137-399-11	FILM 0.1MF 5% 50V	
C5205	1-164-489-11	CERAMIC CHIP 0.22MF 10% 16V	
C5206	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5301	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5303	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5304	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5305	1-104-664-11	ELECT 47MF 20% 25V	
C5306	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5307	1-137-399-11	FILM 0.1MF 5% 50V	
C5308	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5309	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5310	1-104-664-11	ELECT 47MF 20% 25V	
C5311	1-137-399-11	FILM 0.1MF 5% 50V	
C5401	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5403	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C5404	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5405	1-104-664-11	ELECT 47MF 20% 25V	
C5406	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5407	1-137-399-11	FILM 0.1MF 5% 50V	
C5408	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C5409	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5410	1-104-664-11	ELECT 47MF 20% 25V	
C5412	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C5501	1-126-923-11	ELECT 220MF 20% 10V	
		<CONNECTOR>	
CN5001	*1-564-512-11	PLUG, CONNECTOR 9P	
CN5002	*1-564-509-11	PLUG, CONNECTOR 6P	
CN5003	1-564-513-11	PLUG, CONNECTOR 10P	
CN5004	*1-564-507-11	PLUG, CONNECTOR 4P	
		<DIODE>	
D5002	8-719-801-78	DIODE 1SS184	
D5101	8-719-800-76	DIODE 1SS226	
D5103	8-719-800-76	DIODE 1SS226	
D5201	8-719-800-76	DIODE 1SS226	
D5301	8-719-800-76	DIODE 1SS226	
D5303	8-719-800-76	DIODE 1SS226	
D5401	8-719-800-76	DIODE 1SS226	
D5403	8-719-800-76	DIODE 1SS226	
D5501	8-719-976-96	ZENER DIODE DTZ4.7C	
		<SENSOR>	
GS5001	*1-475-351-11	SENSOR UNIT, MAGNETIC	
		<IC>	
IC5101	8-759-822-38	IC LA6510	
IC5201	8-759-803-42	IC LA6500-FA	
IC5301	8-759-822-38	IC LA6510	
IC5401	8-759-822-38	IC LA6510	

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L

REF.NO.	PART NO.	DESCRIPTION			REMARK
	<RESISTOR>				
R5001	1-249-383-11	CARBON	1.5	5%	1/4W F
R5003	1-216-295-91	SHORT	0		
R5005	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R5006	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5007	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R5008	1-216-295-91	SHORT	0		
R5009	1-216-295-91	SHORT	0		
R5010	1-216-295-91	SHORT	0		
R5011	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5012	1-216-295-91	SHORT	0		
R5013	1-216-295-91	SHORT	0		
R5015	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R5101	1-249-383-11	CARBON	1.5	5%	1/4W F
R5102	1-249-383-11	CARBON	1.5	5%	1/4W F
R5108	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5109	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5110	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5111	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5112	1-249-383-11	CARBON	1.5	5%	1/4W F
R5113	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5114	1-249-441-11	CARBON	100K	5%	1/4W F
R5115	1-215-882-00	METAL OXIDE	22	5%	2W F
R5116	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5117	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5119	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5120	1-249-383-11	CARBON	1.5	5%	1/4W F
R5121	1-249-441-11	CARBON	100K	5%	1/4W F
R5122	1-215-882-00	METAL OXIDE	22	5%	2W F
R5201	1-249-383-11	CARBON	1.5	5%	1/4W F
R5202	1-249-383-11	CARBON	1.5	5%	1/4W F
R5203	1-249-383-11	CARBON	1.5	5%	1/4W F
R5204	1-249-441-11	CARBON	100K	5%	1/4W F
R5205	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5206	1-215-859-00	METAL OXIDE	22	5%	1W F
R5207	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5208	1-216-670-11	METAL CHIP	6.2K	0.50%	1/10W
R5301	1-249-383-11	CARBON	1.5	5%	1/4W F
R5302	1-249-383-11	CARBON	1.5	5%	1/4W F
R5308	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5309	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5310	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5311	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5312	1-249-383-11	CARBON	1.5	5%	1/4W F
R5313	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5314	1-249-441-11	CARBON	100K	5%	1/4W F
R5315	1-215-882-00	METAL OXIDE	22	5%	2W F
R5316	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5317	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5319	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5320	1-249-383-11	CARBON	1.5	5%	1/4W F
R5321	1-249-441-11	CARBON	100K	5%	1/4W F
R5322	1-215-882-00	METAL OXIDE	22	5%	2W F
R5401	1-249-383-11	CARBON	1.5	5%	1/4W F
R5402	1-249-383-11	CARBON	1.5	5%	1/4W F
R5406	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R5407	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R5408	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5409	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5410	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5411	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5412	1-249-383-11	CARBON	1.5	5%	1/4W F
R5413	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R5414	1-249-441-11	CARBON	100K	5%	1/4W F
R5415	1-215-886-11	METAL OXIDE	100	5%	2W F
R5416	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R5417	1-216-308-00	METAL GLAZE	4.7	5%	1/10W
R5419	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5420	1-249-383-11	CARBON	1.5	5%	1/4W F
R5421	1-249-441-11	CARBON	100K	5%	1/4W F
R5422	1-215-885-00	METAL OXIDE	68	5%	2W F
R5423	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R5501	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R5502	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R5503	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R5504	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R5505	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R5506	1-216-670-11	METAL CHIP	6.2K	0.50%	1/10W

****

MISCELLANEOUS
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	⚠ 1-251-382-12	INLET, AC 3P(WITH NOISE FILTE)
	⚠ 1-416-140-12	COIL, LANDING CORRECTION
	⚠ 1-416-437-11	COIL, DEMAGNETIC
	⚠ 1-416-438-11	COIL, LANDING CORRECTION
	⚠ 1-452-932-11	NECK ASSEMBLY, PICTURE TUBE
	1-777-743-11	CABLE ASSY(15PDSUBX2CONNECTOR)
	⚠ 8-451-493-11	DEFLECTION YOKE (Y21SRL-M)
V901	⚠ 8-738-791-05	PICTUER TUBE (21SRG)
	⚠ 8-738-791-81	ITC ASSY (21SRG-R1)

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